Attachment 3

FEMA Rugged Base Performance Requirement Matrix

5/1/2014

Attachment 3 : FEMA Rugged Base Performance Requirement Matrix

4 Summary an

- Summary and Overview
- 5 In the FEMA Rugged Base Performance Requirements (Section J: Attachment 3) there are series of numbered shall's ("shall (#)"). For each
- 6 numbered shall ("shall (#)")., the contractor will have to fill and submit the FEMA Rugged Base Requirements Matrix(Section J :Attachment: 3) to
 - demonstrate compliance.

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- 9 The final version of the FEMA Rugged Base Requirement Matrix shall be submitted as required in Section M and shall indicate to what version of
- 10 FEMA Rugged Base Requirements the Offeror is providing responses.
- Every other *shall* in the solicitation or in this document will have to be met, however only the numbered *shall* 's ("*shall* (#)") will be in the Rugged
- Base Requirements Matrix (Section J : Attachment: 3).

13

14 Instructions:

Column 1	Column 2	Column3	Column 4	Column 5	Column 6
Section	FEMA Requirement:	FEMA Requirement	Description	Location	FEMA
Number	("shall (#)").	compliance			acceptance
and Title					

- Column 1: Section number and title
- The "Section" Colum indicates the section number and title of a requirement in the Rugged Base FEMA requirements (Section J: Attachment 2)
- 17 Column 2: FEMA requirements
- 18 The "FEMA Requirement" would have to be filled out with the numbered Requirements from the Rugged Base Requirements (Section J: Attachment 2)
- 19 Column 3: FEMA Requirement compliance
- The manufacturer is required to state for each FEMA requirement in Column number 2 if the manufacturer met the requirement (Yes/No/ N/A)
- 21 Column 4: Description

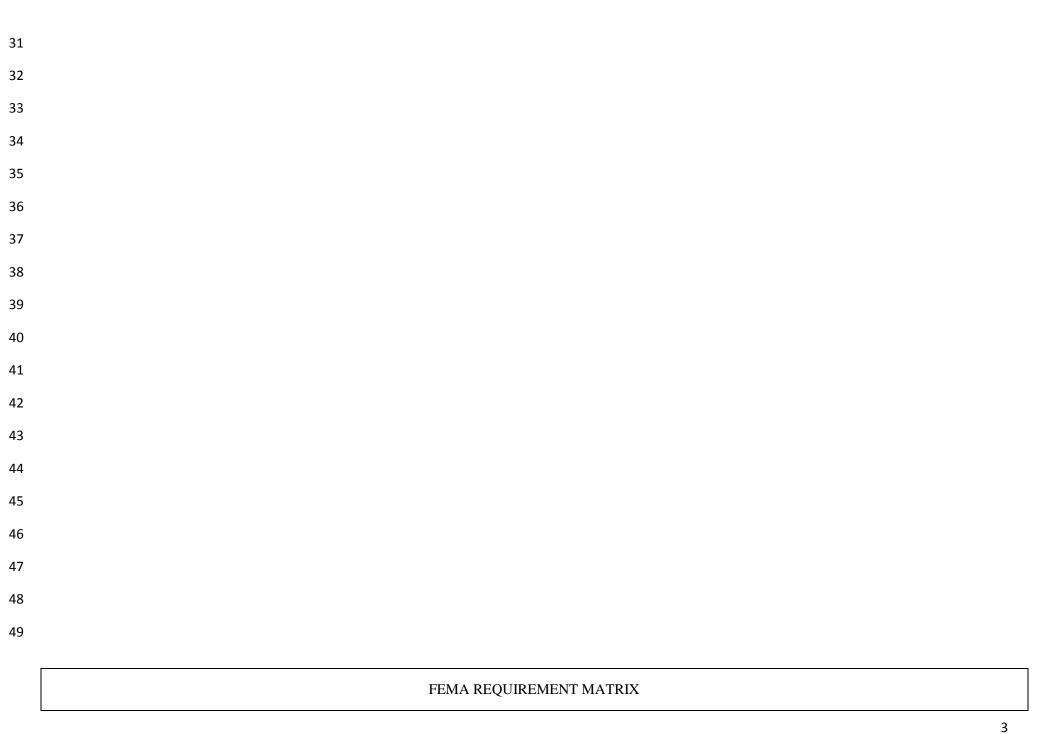
- The manufacturer is required to provide a description to demonstrate of the FEMA Requirement (*shalls*). This should not be restating the requirements (shalls),
- but if not a detailed explanation and/or description on show the vendor Met/ Not met or N/A
- 24 Column 5: Location

26

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- 25 The manufacturer has to indicate where in the Proposal the manufacturer shows compliance and/or demonstrate what is stated in the description. The manufacturer
 - shall provide as much details as possible to ensure that it provide adequate information to the evaluators.
- 27 Column 6: FEMA Acceptance
- FEMA indicate if the vendor met the requirement
- 29 Example: NOTIONAL DATA, Just to provide guidance

Section Number and Title	FEMA Requirement: ("shall (#)").	FEMA Requirements of the compliance YES/NO/N/A		Description	Location	FEMA acceptance
7.5.4 Microwave Oven	Each unit <i>shall</i> (98) include a 1.2 c.f. microwave (minimum) with child lock unless	3 bedroom	YES	Each Unit will include a 1.4 c.f. microwave with a child lock.	Refer to Spec Sheet in Tab "X" and Page "X" of the proposal that shows that each unit will include a 1.4 c.f microwave.	YES
	this requirement is met through the use of a combination microwave / hood / fan / light)	2 bedroom	YES	Each Unit will include a 1.4 c.f. microwave with a child lock	Refer to Spec Sheet in Tab "X" and Page "X" of the proposal that shows that each unit will include a 1.4 c.f microwave.	YES
	<i>5</i> /	1 bedroom	YES	Each Unit will include a 1.0 c.f. microwave with a child lock	Refer to Spec Sheet in Tab "X" and Page "X" of the proposal that shows that each unit will include a 1.4 c.f microwave.	YES
		Express bedroom	YES	Each Unit will include a 1.4 c.f. microwave with a child lock	Refer to Spec Sheet in Tab "X" and Page "X" of the proposal that shows that each unit will include a 1.4 c.f microwave.	YES



Section	FEMA Requirement: ("shall (#)").	FEMA Requirement compliance	Requirement met Yes , No or N/A	Description	Location	FEMA acceptance
	1.0. Compliance With 24 CFR					
~	All units shall (1) be built to HUD Code as defined in 24 CFR 3280 & 3282.	3 bedroom				
XE		2 bedroom				
4 C		1 bedroom				
h 2		Express unit				
<u>**it</u>	All units <i>shall</i> (2) bear the HUD label prior to shipment,	3 bedroom				
1.1 Compliance with 24 CFR 3280 (a.k.a. "HUD Code")		2 bedroom				
anc a. '		1 bedroom				
pli I.k.		Express unit				
om (a	Shall (3) meet any solicitation-specific HUD defined ratings for Wind Zone,	3 bedroom				
C C	Thermal Zone, and Roof Load.	2 bedroom				
3.		1 bedroom				
		Express unit				
	2.0 Compliance with International Bu		Ī		T	ı
-	Each unit <i>shall (4)</i> include full house wrap meeting the standards set forth in the	3 bedroom				
2.1 International Building Code (IBC)	2009 International Building Code, Section 1403.2 Weather Protection.	2 bedroom				
Co		1 bedroom				
terna Jing (Express unit				
lid int						
.1 Bu						
7						
	3.0 Compliance with Uniform Accessibility	Standards(UFA	AS)			
S	All units designated as "UFAS" or "Accessible" shall (5) be fully compliant with	3 bedroom				
ard ar	UFAS and this document. UFAS "reminders" included throughout these	2 bedroom				
de nda	requirements are used to highlight certain standards, but are not all-inclusive,	1 bedroom				
Fe Star S)						
iform Faility Sta (UFAS)		Express unit				
	the contractor shall (6) be responsible for ensuring full compliance with	3 bedroom				
3.1 Uniform Federal Accessibility Standards (UFAS)	applicable UFAS requirements.	2 bedroom				
3.1 cce		1 bedroom				
<		Express unit				

	4.0 Zoning Requirements				
	"FEMA Northern Units" Manufactured Housing Design Criteria shall (7) be in	3 bedroom			
4.1	Accordance with 24 CFR 3280.506 Thermal Zone 3 (a U-Value for Zone 3)	2 bedroom			
4		1 bedroom			
		Express unit			
	Thermal Identification shall (8) have a Painted Blue Draw Bar	3 bedroom			
4.1.1		2 bedroom			
4.		1 bedroom			
		Express unit			
	FEMA "Southern Units" Manufactured Housing Design Criteria shall (9) be in	3 bedroom			
2.5	Accordance with 24 CFR 3280.506 for Thermal Zone 2 (U-Value for Zone 2)	2 bedroom			
4		1 bedroom			
		Express unit			
	Thermal Identification shall (10) have a Painted Red Draw Bar	3 bedroom			
4.2.1		2 bedroom			
4,		1 bedroom			
		Express unit			
	FEMA "CONUS" unit <i>shall</i> (11) be able to be deployable in Contiguous United	3 bedroom			
£.3	States.	2 bedroom			
4		1 bedroom			
		Express unit			
	Thermal Identification shall (12) have a painted Green Draw Bar	3 bedroom			
4.3.1		2 bedroom			
4.		1 bedroom			
		Express unit			
	FEMA Units" (all) Manufactured Housing Design Criteria shall (13) be in	3 bedroom			
4. 4.	Accordance with 24 CFR 3280.305(c) Structural design requirements - Wind,	2 bedroom			
4	snow and roof loads for Wind Zone III.	1 bedroom			
		Express unit			
	"FEMA Units" (all) Manufactured Housing Design Criteria shall (14) be in	3 bedroom			
5:4	Accordance with 24 CFR 3280.305(c) Structural design requirements – roof load	2 bedroom			
4	Northern Zone	1 bedroom			
		Express unit			
	50 Size and Configuration				
ı ı	Final dimensions <i>shall (15)</i> be proposed by contractor, but not to exceed sixty	3 bedroom			
.1 :rio :gtl	feet(60')(box length)	2 bedroom			
5.1 Exterior Length		1 bedroom			
E I		Express unit			

	Final dimensions <i>shall (16)</i> be proposed by contractor	3 bedroom		
		2 bedroom		
		1 bedroom		
		Express unit		
	1 bed Final dimensions <i>shall</i> (17) be proposed by contractor	3 bedroom		
		2 bedroom		
		1 bedroom		
		Express unit		
	Final dimensions <i>shall (18)</i> be proposed by contractor, but not less than forty four	3 bedroom		
	(44) feet and not to exceed forty eight (48') feet (Box length)	2 bedroom		
		1 bedroom		
		Express unit		
	3 bed -Final Dimensions <i>shall (19)</i> not exceed fourteen feet (14') (box width)	3 bedroom		
		2 bedroom		
		1 bedroom		
		E		
	2 bed Final dimensions <i>shall</i> (20) be proposed by contractor, but not to exceed	Express unit 3 bedroom		
dth	fourteen feet (14')(box width)	2 bedroom		
Ř	Tourison root (11)(oon widen)	1 bedroom		
0 L		Express unit		
eri	1 bed Final dimensions <i>shall (21)</i> be proposed by contractor, but not to exceed	3 bedroom		
5.2 Exterior Width	fourteen feet (14')(box width)	2 bedroom		
[2]		1 bedroom		
W .		Express unit		
	Express: Final dimensions <i>shall (22)</i> be proposed by the contractor, but not be	3 bedroom		
	less than eight (8') and not to exceed eight feet and one half (8.5') (transport	2 bedroom		
	width) Slide out portions of the MHU are not acceptable	1 bedroom		
		Express unit		
	Acceptable manufactured home size (Area) for the 3-Bedroom units shall (23) be	3 bedroom		
	a maximum of eight-hundred forty square feet (840 sq. ft.)	2 bedroom		
ea		1 bedroom		
		Express unit		
5.3 Area	Acceptable manufactured home size (Area) for the 2-Bedroom units shall (24) be	3 bedroom		
5.3	a maximum of seven-hundred forty square feet (740 sq. ft.)	2 bedroom		
		1 bedroom		
		Express unit		
	Acceptable – manufactured home size for the 1- Bedroom units shall (25) be a	3 bedroom		

	maximum of five-hundred seventy-five square feet (575 sq. ft.)	2 bedroom		
	y	1 bedroom		
		Express unit		
	Acceptable manufactured home size (area) for the express unit <i>shall</i> (26) be	3 bedroom		
	between a minimum of three hundred and fifty two square feet (352 sq. ft.) and a	2 bedroom		
	maximum of four hundred and eight square feet (408 sq. ft.)(Refer to 5.4)	1 bedroom		
		Express unit		
	6.0 Living Room	1		
	Each unit <i>shall (27)</i> have a designated, usable living room area.	3 bedroom		
		2 bedroom		
		1 bedroom		
		Express unit		
	Each living room area <i>shall</i> (28) be furnished with one (1) sofa (double/full size	3 bedroom		
	mattress with dimensions approximately 54" x 75"), one (1) armchair	2 bedroom		
	(constructed of non-permeable material such as wood, without fabric covering),	1 bedroom		
	one (1) coffee table, and one (1) end table.			
		Express unit		
	All furnishing <i>shall</i> (29) be standard sizes and commercially available.	3 bedroom		
		2 bedroom		
		1 bedroom		
gu		Express unit		
6.1 Furnishing	All furniture <i>shall</i> (30) be assembled with all packing material removed from the	3 bedroom		
i i	manufactured home.	2 bedroom		
<u>E</u>		1 bedroom		
1 3		Express unit		
9	Furniture shall (31) be packed in a manner so that it is not damaged during	3 bedroom		
	multiple transportations and/or in the unpacking process.	2 bedroom		
		1 bedroom		
		E		
	Quality furniture requires good construction (i.e., free of defects) and the futon	Express unit 3 bedroom		
	shall (32) be soft, comfortable (provide comfort or physical relief, free of causing			
	affliction or pain to the occupant), safe, be free of sharp, abrasive surfaces, edges	2 bedroom 1 bedroom		
	and durable for up to five (5) years in storage and/or eighteen (18) months during	1 bedroom		
	occupancy.			
		Express unit		
	All fabric or material used <i>shall (33)</i> sustain rough and tumble usage.	3 bedroom		

		2 bedroom
		1 bedroom
		Express unit
	Fabric or material <i>shall (34)</i> meet the federal flammability standards.	3 bedroom
		2 bedroom
		1 bedroom
		Express unit
	All fabric or material <i>shall (35)</i> have stain resistance protection and sustain	3 bedroom
	rough and tumble usage	2 bedroom
		1 bedroom
		Express unit
	Cable Television Jack: Each unit <i>shall (36)</i> have a pre-wired television jack	3 bedroom
	installed in the living room.	2 bedroom
		1 bedroom
		Express unit
	The cable jack <i>shall (37)</i> be wired to a designated junction box for easy	3 bedroom
Š	connection by a service provider.	2 bedroom
tlet		1 bedroom
6.2 Telephone and cable television outlets	Telephone Jack : Each unit <i>shall (38)</i> have a pre-wired telephone jack installed in the living room.	Express unit
on		3 bedroom
Visi		2 bedroom
ele		1 bedroom
le t		Express unit
ap.	The telephone jack <i>shall</i> (39) be wired for two lines or a telephone jack with double outlets.	3 bedroom
d c		2 bedroom
an		1 bedroom
ne		Express unit
bhc	The telephone jack shall (40) be wired to a designated junction box for easy	3 bedroom
ele	connection by a service provider.	2 bedroom
Ĭ		1 bedroom
6.2		Express unit
	Cable and television jacks <i>shall (41)</i> be placed so that when the wires are plugged	3 bedroom
	in it does not interfere with the usability of the unit and any safety issues such as	2 bedroom
	trip hazards are avoided. At the same time, the jacks <i>shall (42)</i> be placed in a	1 bedroom
	matter that furniture does not have to be moved to access the cable, and telephone	
	jacks.	E
	# 0.174.1 /Dt t D	Express unit
	7.0 Kitchen/ Dining Room	1

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gı	m
7.1 Furnishing	F
7.	A
	A da
	3 cl
	N

	3 bedroom
	2 bedroom
<u>L</u>	1 bedroom
	Express unit
	3 bedroom
The dining room area <i>shall (44)</i> be furnished with dinette table.	2 bedroom
	1 bedroom
	Express unit
	3 bedroom
	2 bedroom
	1 bedroom
ı ,	1 bedroom
	Express unit
	3 bedroom
	2 bedroom
	1 bedroom
	Express unit
	3 bedroom
	2 bedroom
	1 bedroom
	Express unit 3 bedroom
	2 bedroom
<u>-</u>	1 bedroom
	Express unit
	3 bedroom
damaged during multiple transportations or in the unpacking process.	2 bedroom
	1 bedroom
	Express unit
3 bed-Furniture <i>shall</i> (50) be one (1) table, sized approx. 3' x 6'6", with six (6)	3 bedroom
chairs to accommodate six (6) adults	2 bedroom
	1 bedroom
Note: All chairs <i>shall</i> be the same size and matched	
	Express unit
2- bed Furniture <i>shall</i> (51) be one (1) table, sized approx. 3' x 5', with four (4)	3 bedroom
chairs to accommodate four (4) adults	2 bedroom
	1 bedroom
Note: All chairs <i>shall</i> be the same size and matched	

		Express unit		
	1 bed- Furniture <i>shall (52)</i> be one (1) table, sized approx. 3' x 5', with four (4)	3 bedroom		
	chairs to accommodate four (4) adults	2 bedroom		
		1 bedroom		
	Note: All chairs <i>shall</i> be the same size and	1 000100111		
	matched			
		Express unit		
	Express- Furniture <i>shall (53)</i> be	3 bedroom		
	one (1) table, approx. sized 3' x 5', with four (4) chairs to accommodate four (4)	2 bedroom		
	adults	1 bedroom		
	Note: All chairs <i>shall</i>			
	be the same size and			
	matched			
		Express unit		
	The manufacturer <i>shall</i> (54) provide and install upper and lower cabinets	3 bedroom		
		2 bedroom		
		1 bedroom		
		Express unit		
	Cabinets upper and lower <i>shall (55)</i> be equal to or better than Kitchen Cabinet Manufacturers Association(KCMA) certified cabinets.	3 bedroom		
		2 bedroom		
	The contractor have the option to perform self-certification (The contractor shall			
	indicate in the Attachment 3 how the cabinets chosen or built will perform equal			
> .	or better than the KCMA certified cabinets			
etr		Express unit		
ic		3 bedroom		
	The minimum acceptable linear inch length for the upper (wall) cabinet <i>shall</i> (56)	2 bedroom		
7.2 Cabinetry	be thirty-six inches (36").	1 bedroom		
7				
		Express unit		
	The manufacturer <i>shall</i> (57)explore the option of adding additional upper (wall)	3 bedroom		
	cabinets, additional upper cabinets are desirable.	2 bedroom		
		1 bedroom		
		Express unit		
	The minimum acceptable linear inch length for the lower cabinet <i>shall</i> (58)be	3 bedroom		
	thirty-six inches (36").	2 bedroom		
		1 bedroom		
		Express unit		

	An acceptable lower cabinet <i>shall (59)</i> have a single drawer and two doors.	3 bedroom	
		2 bedroom	
		1 bedroom	
		Express unit	
	The manufacturer <i>shall</i> (60) explore the option of adding additional lower	3 bedroom	
	cabinets, additional lower cabinets are desirable.	2 bedroom	
		1 bedroom	
		Express unit	
	The upper and lower cabinets <i>shall (61)</i> have fixed shelving.	3 bedroom	
		2 bedroom	
		1 bedroom	
		Express unit	
	All cabinets <i>shall</i> (62) be constructed with a finish compatible with the interior	3 bedroom	
	decor	2 bedroom	
		1 bedroom	
		Express unit	
	The Manufacturer <i>shall</i> (63) install post formed laminated counter top (the counter top formed from a single piece of laminate that's shaped into a backsplash at the rear and a rounded edge in front) or <i>shall</i> (64) be an industry standard countertop with a back splash property sealed and water resistant to last for both, storage (nominal 5 years) and use (1-2 years).	3 bedroom	
		2 bedroom	
		1 bedroom	
70		Express unit	
obš	The minimum size of the backsplash height <i>shall (65)</i> be 4 inches.	3 bedroom	
L		2 bedroom	
nte		1 bedroom	
		Express unit	
C	All units shall (66) include a minimum of thirty-six inches (36") of continuous	3 bedroom	
her	counter top space in the kitchen supported by a base cabinet that has a single	2 bedroom	
itc	drawer and two doors.	1 bedroom	
7.3 Kitchen Counter Tops			
		Express unit	
	Kitchen space shall (67) accommodate food preparation.	3 bedroom	
		2 bedroom	
		1 bedroom	
		Express unit	
	Access to counter top shall (68) be unobstructed.	3 bedroom	
		2 bedroom	

		1 bedroom	
		Express unit	
	All surfaces subject to food preparation <i>shall (69)</i> be washable, without open	3 bedroom	
	joints or comprised of materials that cannot be sanitized and/or are not suited for	2 bedroom	
	long term use	1 bedroom	
	Tong term doe	Express unit	
		Express unit	
	Each home shall (70) have a completely installed, self-rimming, double bowl,	3 bedroom	
	stainless steel sink with one spray nozzle with at least twenty- four inch (24")	2 bedroom	
	extension when extended.	1 bedroom	
		Express unit	
	Each sink bowl <i>shall (71)</i> be fitted with a metal strainer basket assembly and an	3 bedroom	
	appropriately sized strainer basket.	2 bedroom	
		1 bedroom	
		Express unit	
	Kitchen sink <i>shall</i> (72) be a minimum of:	3 bedroom	
	33"L x 22"H	2 bedroom	
	Basin depth: 8"	1 bedroom	
녿	Double equal basins		
7.4 Kitchen Sink			
Jen		Express unit	
itc	Hot water and drain pipes shall (73) be insulated to protect against contact unless	3 bedroom	
★	they are contained in a kitchen sink base cabinet.	2 bedroom	
7.7		1 bedroom	
		Express unit	
	Kitchen pipes and fixtures shall (74) have the adequate protection and insulation	3 bedroom	
	to avoid causing injuries whether the manufactured home is occupied or not.	2 bedroom	
		1 bedroom	
		Express unit	
	Kitchen pipes and fixtures <i>shall (75)</i> have the adequate protection and insulation	3 bedroom	
	to avoid freezing.	2 bedroom	
		1 bedroom	
		Express unit	
	There <i>shall</i> (76) be no sharp or abrasive surfaces under the kitchen sink.	3 bedroom	
		2 bedroom	

		1 bedroom	
		Express unit	
	The Contractor <i>shall (77)</i> ensure that all appliances are high-efficiency and	3 bedroom	
	Energy Star qualified (The US Department of Energy list of appliances with	2 bedroom	
	Energy Star ratings	1 bedroom	
		Express unit	
	The Contractor <i>shall (78)</i> leave in place all labels that are affixed to the	3 bedroom	
		2 bedroom	
	Energy Star qualified.	1 bedroom	
	Energy star quarries	1 bedroom	
es		Express unit	
7.5 Appliances	All appliances <i>shall (79)</i> be unpacked, installed and packing material <i>shall (80)</i> be removed from the manufactured home.	3 bedroom	
olia		2 bedroom	
 		1 bedroom	
κ.		Express unit	
7.5	. All appliances shall (81) be secured in a manner so that it is not damaged during	3 bedroom	
		2 bedroom	
		1 bedroom	
		Express unit	
	Items used to secure appliance doors <i>shall</i> (82) be easily removed(i.e.,	3 bedroom	
	Refrigerator Door ,Oven doors)	2 bedroom	
		1 bedroom	
		Express unit	
	The contractor <i>shall (83)</i> install a thirty inch (30") self-cleaning electric cooking	3 bedroom	
	range / oven.	2 bedroom	
en		1 bedroom	
Ó		Express unit	
ge/	It shall (84) include four (4) burners, a thermostatically controlled lighted oven,	3 bedroom	
an	and indicator lights that show that the burners are operating or are hot	2 bedroom	
1 B		1 bedroom	
7.5.1 Range/Oven		Express unit	
7	Range / oven controls shall (85) be located so that the user does not have to reach	3 bedroom	
	across burners to use the range / oven.	2 bedroom	

		1 bedroom		
		Express unit		
	The oven <i>shall</i> (86) have insulation on all sides to prevent excessive heat	3 bedroom		
	exposure.	2 bedroom		
		1 bedroom		
		Express unit		
	The range / oven <i>shall</i> (87) be secured to the floor to ensure that it is not damaged	3 bedroom		
	during multiple transportations, affects the structure of the MHU, interfere when	2 bedroom		
	the unit is occupied, compromise safety of the occupants or becomes damaged or damage the MHU unit during transportation.	1 bedroom		
		Express unit		
	The range/oven <i>shall</i> (88) be secured using a minimum of two brackets.	3 bedroom		
		2 bedroom		
		1 bedroom		
		Express unit		
	The range / oven <i>shall</i> (89) be plugged into the receptacle (receptacle for range is	3 bedroom		
	flush mounted in the wall behind range). Brackets used can include the typical	2 bedroom		
	angle bracket / gusset that supplied with a range / oven and an additional angle bracket / gusset.	1 bedroom		
		Express unit		
	A lighted, power-vented range hood shall (90) be installed (one-piece	3 bedroom		
7.5.2 Power Vented Range	construction) unless a combination microwave / hood / fan / light is installed.	2 bedroom		
7.5 20v 7en 8ar		1 bedroom		
		Express unit		
	Each unit shall (91) be equipped an 18 cubic feet (c.f.) or equivalent frost-free	3 bedroom		
	refrigerator with freezer	2 bedroom		
		1 bedroom		
)r		Express unit		
_atc	The refrigerator <i>shall</i> (92) be secured to the floor. Also, the refrigerator <i>shall</i> (93)	3 bedroom		
ger	be secured at least to one wall stud.	2 bedroom		
		1 bedroom		
≈		Express unit		
5.3 I	The refrigerator <i>shall (94)</i> be on its own circuit.	3 bedroom		
7.5.3 Refrigerator	The refrigerator <i>shall (94)</i> be on its own circuit.			
7.5.3 I	The refrigerator <i>shall (94)</i> be on its own circuit.	3 bedroom		
7.5.31	The refrigerator <i>shall</i> (94) be on its own circuit. The refrigerator <i>shall</i> (95) be able to be opened from the inside. The refrigerator	3 bedroom 2 bedroom		

	shall (96) be located so that when the door swings open it does not impede access	2 bedroom	
	when approaching from the stove, sink and food preparation area.	1 bedroom	
		Express unit	
		3 bedroom	
	The refrigerator <i>shall (97)</i> not be plugged in at time of delivery to FEMA.	2 bedroom	
	The ferrigeration shall (57) not be plugged in at time of denivery to 1 21/11.	1 bedroom	
		Express unit	
	Each unit <i>shall</i> (98) include a 1.2 c.f. microwave (minimum) with child lock	3 bedroom	
en	unless this requirement is met through the use of a combination microwave /	2 bedroom	
Ŏ	hood / fan / light	1 bedroom	
ve	nood / fail / fight		
7.5.4 Microwave Oven		Express unit	
	All Manufactured Homes <i>shall</i> (99) have a laundry area designated for the washer and dryer including the plumbing, electrical connections, and dryer vent.	3 bedroom	
		2 bedroom	
		1 bedroom	
dn		Express unit	
ok		3 bedroom	
. pc	The washer / dryer area shall (100) be designed to accommodate a standard size	2 bedroom	
7.6 Laundry Area, Washer and dryer hook up	side by side washer/dryer (i.e., 27" wide, 36" high and comes out from the wall 29 inches).	1 bedroom	
r ar		Express unit	
she	The Dryer vent <i>shall (101)</i> have an exhaust to the exterior so that when	3 bedroom	
Vas	connecting the dryer duct, the dryer exhaust to the outside.	2 bedroom	
a, V	connecting the dryer duct, the dryer exhaust to the outside.	1 bedroom	
V.re.		Express unit	
y A	The Dryer exhaust system <i>shall (102)</i> not terminate under the home.	3 bedroom	
ndr	The Dryer exhaust system shart (102) not terminate under the nome.	2 bedroom	
me'		1 bedroom	
19			
7.		Express unit 3 bedroom	
	The Washer and Dryer hookup <i>shall (103)</i> not require any modification to install		
	a washer and/or dryer.	2 bedroom	
	a washer and/or dryer.	1 bedroom	

			1		
		Express unit			
	The manufactured home <i>shall (104)</i> not include a washer and dryer	3 bedroom			
		2 bedroom			
		1 bedroom			
		Express unit			
			•	•	
	8.0 Bedrooms				
	All units <i>shall (105)</i> provide sleeping capacity to accommodate two persons in	3 bedroom			
	each bedroom.	2 bedroom			
		1 bedroom			
		Express unit			
	On the floor plan the bedrooms <i>shall (106)</i> be designated as follows:	3 bedroom			
	Master bedroom – Bedroom 1	2 bedroom			
	 Second bedroom – Bedroom 2 	1 bedroom			
	• Third bedroom – Bedroom 3				
		Express unit			
	Bedrooms <i>shall</i> (107) be designated by size with the smallest bedroom being designated with the highest number	3 bedroom			
0.0		2 bedroom			
hin		1 bedroom			
nis]		Express unit			
8.1 Furnishing	Each bedroom <i>shall (108)</i> be furnished with the following:	3 bedroom			
1 H	Bed(s) for two persons (including mattress, box spring and metal bed frame)	2 bedroom			
∞ ∞	defined as one of the following:	1 bedroom			
	Master Bedroom – One standard full size bed (54" x 75"); Second Budget – One standard full size bed (54" x 75");	Eveness unit			
	 Second Bedroom – One standard full size bed (54" x 75"); Third Bedroom – Two XL twin size mattresses (each 39" x 80") placed 	Express unit			
	on a free standing bunk bed frame, and not built into the manufactured				
	housing unit				
	One five-drawer dresser (minimum 48" H x 33" W x 18" D)				
	One nightstand or equivalent				
	In Bedrooms 1 and 2:	3 bedroom			
	• One of the short sides of the bed <i>shall (109)</i> be designated as the head of	2 bedroom			
	the bed, and that short side shall (110) be placed against a wall	1 bedroom			
	• Of the three remaining sides, two <i>shall</i> (111) have a minimum of twelve				

	 inches (12") between the bed and the nearest wall The final side of the bed shall (112) have open access of at least twenty-four inches (24") from the nearest wall In Bedroom 3: One of the short sides of the bed shall (113) be designated as the head of the bed and that short side shall (114) be placed against a wall One long side shall (115) be placed against a wall located perpendicular to the wall where the head of the bed is located There shall (116) be a minimum of twelve inches (12") between the non-head, short edge of the bed and the nearest wall The final long side of the bunk bed shall (117) be open to the room 	Express unit 3 bedroom 2 bedroom 1 bedroom Express Unit		
8.2 Closets	Each bedroom <i>shall</i> (118) have an enclosed closet space (enclosed by a door(s)), with a minimum interior length of thirty-two inches (32"), equipped with a shelf and rod running the length of the closet and supported on both ends, and fully compliant with 24 CFR 3280 ("HUD Code").	3 bedroom 2 bedroom 1 bedroom Express unit		
on outlets	Telephone Outlet ("Jack"): Each unit <i>shall</i> (119) have a pre-wired telephone jack installed in each bedroom. The Telephone Jack <i>shall</i> (120) be wired for two lines or be a telephone jack with double outlets.	3 bedroom 2 bedroom 1 bedroom Express unit		
8.3 Telephone and Cable Television outlets	Cable Television Outlet ("Jack"): Each unit <i>shall</i> (121) have a pre-wired television jack installed in each bedroom.	3 bedroom 2 bedroom 1 bedroom Express unit		
	The telephone and cable jack <i>shall (122)</i> be wired to a designated junction box for easy connection by a service provider.	3 bedroom 2 bedroom 1 bedroom Express unit		
8.3 Telepho	Cable and television jacks <i>shall</i> (123) be placed so that when the wires are plugged in it does not interfere with the usability of the unit and any safety issues such as trip hazards are avoided. At the same time, they jacks <i>shall</i> (124) be placed in a matter that furniture does not have to be moved to access the cable,	3 bedroom 2 bedroom 1 bedroom		

	and telephone jacks.		
		Express unit	
	9.0 Bathroom	Express unit	
-	The contractor <i>shall (125)</i> design and install a full bathroom in all non-UFAS	3 bedroom	
	units that meet the following requirements (From 9.1 to 9.1.6) and be only	2 bedroom	
Fu. oor FA		1 bedroom	
9.1 Full (throom) n-UFAS		Express unit	
9.1 Full Bathroom(N on-UFAS)			
	The contractor <i>shall (126)</i> equip all standard (non-UFAS) manufactured homes	3 bedroom	
	with thirty inches by sixty inches (30" x 60") shower / tub with a non-skid	2 bedroom	
	surface.	1 bedroom	
		Express unit	
qr	The shower / tub <i>shall</i> (127) be installed in accordance with the shower / tub	3 bedroom	
1		2 bedroom	
and		1 bedroom	
9.1.1 Shower and Tub		Express unit	
hov	Contractor shall (128) install UFAS compliant grabs bar in shower / tub area of	3 bedroom	
\mathbf{S}	all manufactured homes.	2 bedroom	
1.1.		1 bedroom	
		Express unit	
		3 bedroom	
	The manufactured home <i>shall (129)</i> include an installed curtain rod	2 bedroom	
		1 bedroom	
		Express unit	
	The manufacturer <i>shall</i> (130) equip the bathroom with a round or elongated bowl.	3 bedroom	
		2 bedroom	
Je		1 bedroom	
noc		Express unit	
9.1.2 Commode	The commode shall (131) be two piece (Tank and bowl are separate) and be an	3 bedroom	
చి	standard height (approx.14-15").	2 bedroom	
1.2		1 bedroom	
6		Express unit	
	The manufacturer shall (132) install UFAS compliant grabs bar in the commode	3 bedroom	
	area of all manufactured homes.	2 bedroom	

		1 bedroom
		Express unit
	The manufacturer shall (133) equip the manufactured home with a wall mounted	3 bedroom
9.1.3 Bathroom Sink	sink	2 bedroom
		1 bedroom
Bathr		Express unit
Ba Sin	The sink <i>shall</i> (134) include a properly plumbed faucet.	3 bedroom
1.3		2 bedroom
6		1 bedroom
		Express unit
	The bathroom <i>shall</i> (135) include commercially available surface mounted	3 bedroom
	medicine cabinet.	2 bedroom
net		1 bedroom
- idi		Express unit
9.1.4 Bathroom Medicine Cabinet	The dimensions of the medicine cabinet <i>shall</i> (136) be roughly 15 ¼ inches by 30	3 bedroom
ine	inches.	2 bedroom
dic		1 bedroom
Me		Express unit
	The medicine cabinet <i>shall</i> (137) be installed above the sink.	3 bedroom
[00]		2 bedroom
thr		1 bedroom
Ba		Express unit
4.	The medicine cabinet <i>shall</i> (138) have a mirrored door. (a Common practice is	3 bedroom
9.	that the top of the cabinet box (not the door trim) should be approx. 72 inches off	2 bedroom
	the floor)	1 bedroom
		Express unit
	The bathroom lighting shall (139) be ceiling mounted, be wall-switched	3 bedroom
a B	controlled, have dual bulb sockets, have non-breakable shades, and have two(2)	2 bedroom
h tj	compact fluorescent light (CFL) or Lighting emitting Diode (LED) bulb	1 bedroom
50	equivalent to sixty (60) watt bulb (120W Total), each, installed. No glass is	
	permitted except for the bulb itself.	
[00]		
th.		Express unit
9.1.5 Bathroom Lighting	In addition, there shall (140) be light specific to the medicine cabinet and sink	3 bedroom
1.5	This lighting shall (141) be supplied either by a light fixture placed over the	2 bedroom
6	vanity or a light fixture placed in the ceiling above the medicine cabinet/sink.	1 bedroom

		Express unit	
_	Other bathroom accessories (including wall mounted toilet paper roll holder and	3 bedroom	
9.1.6 Bathroom Accessories	24 inch towel rack) shall (142) be provided.	2 bedroom	
	•	1 bedroom	
oss			
e e		Express unit	
Ac	All faucet assemblies in the home shall (143) include secondary shutoff valves	3 bedroom	
l wo	(one for each the hot and cold water supply).	2 bedroom	
ILO		1 bedroom	
ath		Express unit	
5 B	The bathroom shall (144) have an exhaust ceiling fan	3 bedroom	
1.		2 bedroom	
6		1 bedroom	
		Express unit	
	The ¾ bathroom shall (145) include all items listed in the full bathroom numbers	3 bedroom	
e om	9.1.2 through 9.1.6	2 bedroom	
re ro		1 bedroom	
9.2 Additional Three Quarters(3/4) Bathroom 3 bedroom unit only		Express unit	
nal B G	The ¾ bathroom shall (146) not have item numbers 9.1.1 (Shower and Tub).	3 bedroom	
tio 3/4	Instead, the contractor shall (147) install a shower. The shower shall (148) have a	2 bedroom	
ddi rs(minimum base of 36" x 36" (threshold). The base of the shower <i>shall</i> (149) be	1 bedroom	
A A	rectangular or squared in shape, and be commercially available (no custom made		
9.2 Jua 3.1	items).		
ightharpoonup		E	
	10.0 TJ.:24 TT-11	Express unit	
	10.0 Unit Hallways	2 hadroore	
10.1 Hallway Width	All hallways <i>shall (150)</i> be a minimum of thirty-six inches (36") wide.	3 bedroom	
Vić		2 bedroom	
>		1 bedroom	
wa	Designant and haritage -L-II (151) minimize the eventure of deep springs	Express unit 3 bedroom	
[a]	Designers and builders <i>shall</i> (151) minimize the overlap of door swings.		
1 H		2 bedroom	
10.		1 bedroom	
, .	11 O EL 4 * 1	Express unit	
	11.0 Electrical	21.1	
ite al	Electrical systems shall (152) be in compliance with the National Electrical	3 bedroom	
11.1 Elect rical Syste	Code, 24 CFR 3280 and be able to supply sufficient and adequate Power to the	2 bedroom	
	whole MHU without having breakers tripped and/or fire hazard.	1 bedroom	

		Express unit		
	All exposed non-current carrying metals parts that may become energized <i>shall</i>	3 bedroom		
	(153) be bonded to the grounding terminal or enclosure of the distribution panel	2 bedroom		
	board.	1 bedroom		
		Express unit		
		3 bedroom		
	All units shall (154) be ready for hook up to municipal electric service	2 bedroom		
		1 bedroom		
		Express unit		
	The unit electrical service shall (155) consist of a 120 / 240 volts 4-wire panel	3 bedroom		
	board, complete with master and branch circuit breakers.	2 bedroom		
		1 bedroom		
		Express unit		
	The distribution panel board shall (156) be flush mounted inside the	3 bedroom		
	manufactured home in the rear bedroom on the right side of the bedroom (when	2 bedroom		
	facing the tongue). The panel board shall (157) be of a dead front, safety type,	1 bedroom		
	equipped with thermal magnetic molded case circuit breakers of the quick break			
	type having trip indicators and common trip on all multiple breakers.			
	A ' ' 1'	Express unit		
	A circuit directory <i>shall</i> (158) be permanently affixed to the inside of the circuit	3 bedroom		
	breaker access door. All circuits <i>shall</i> (159) be clearly and legibly identified.	2 bedroom		
		1 bedroom		
		Express unit		
	The acceptable amperage <i>shall</i> (160) be as defined below.	3 bedroom		
	Amperage • 3 bedroom: 200A	2 bedroom		
		1 bedroom		
	• 2 bedroom: 150 A(Min)			
	• 1 bedroom: 150A(Min)			
	• Express Unit: 100 A(min)			
	Volts: 120/240V			
	1 4 U/ 4 T U Y			
		Express unit		
4)	The contractor <i>shall (161)</i> place the water heater on an individual circuit. This	3 bedroom		
Heate r Speci fic	circuit shall (162) be clearly marked and the circuit shall (163) be taped in the off	2 bedroom		
Sp Sp	position. The tape <i>shall</i> (164) be labeled: "Water Heater: Do not turn on until	1 bedroom		
	r	1 000100111	1	

	water service is turned on."			
		Express unit		
	All interior lighting fixtures <i>shall</i> (165) be ceiling mounted, be wall-switched	3 bedroom		
5.0	controlled, have dual bulb sockets, , have non-breakable shades, and have two(2)	2 bedroom		
ţi	compact fluorescent light (CFL) or Lighting emitting Diode (LED) bulb	1 bedroom		
11.3 Interior Lighting	equivalent to sixty (60) watt bulb (120W Total), each, installed. No glass is			
	permitted except for the bulb itself.			
ıte.		Express unit		
]	Lighting fixtures <i>shall</i> (166) be provided in the living room, kitchen, all	3 bedroom		
	bedrooms, bathroom, hallways, and dining area. No glass is permitted.	2 bedroom		
		1 bedroom		
		Express unit		
	Each home <i>shall (167)</i> be equipped with a hinged, metal service entrance	3 bedroom		
	junction box mounted to a floor joist between the I-beam and the sidewall in such	2 bedroom		
	a manner that the distance from the bottom side of the junction box to the floor joist is no more than eight inches (8")	1 bedroom		
	The junction box <i>shall</i> (168) be mounted at a sufficient distance from the outer			
	edge and beneath the unit to prevent rainwater penetration (A special rain shield			
	shall not be installed.)			
X0	In addition, the junction box <i>shall (169)</i> be located within ten feet (10') of the			
n B	right rear (when facing the tongue) of the manufactured home.			
11.4 Service Entrance Junction Box		Express unit		
ınc	The junction box <i>shall (170)</i> be rated NEMA 3 at a minimum and the size of the	3 bedroom		
f	junction box shall (171) be a minimum of 12inx12inx4in.	2 bedroom		
nce		1 bedroom		
tra		Express unit		
En	The junction box selection <i>shall (172)</i> consider all the various angles so that the	3 bedroom		
e	power cables can be pulled toward the box to get the lug nuts.	2 bedroom		
Ľ.		1 bedroom		
Se		Express unit		
1.4	The service entrance box <i>shall (173)</i> be connected to the circuit breaker panel	3 bedroom		
	using seal tight electrical conduit.	2 bedroom		
		1 bedroom		
		Express unit		
	The fittings in the junction box <i>shall (174)</i> be appropriate for copper that may be	3 bedroom		
	used to connect the junction box to the electrical service.	2 bedroom		
		1 bedroom		
		Express unit		

	The inlet <i>shall</i> (175) be functional, accessible and does not obstruct access to	3 bedroom			
	and/or from the door.	2 bedroom			
		1 bedroom			
		Express unit			
	The conductors <i>shall</i> (176) be continuously and appropriately color-coded or	3 bedroom			
	coded using colored tape wrapped around both ends of the conductors for a	2 bedroom			
	minimum of three inches (3"). Paint is not acceptable for coding wires.	1 bedroom			
	minimum of times menes (a), I time is not acceptance for cooling whose	1 bearoom			
		Express unit			
	The contractor <i>shall (177)</i> not use aluminum wire to connect the service entrance	3 bedroom			
	box to the circuit breaker panel. The contractor <i>shall (178)</i> ensure that the wire	2 bedroom			
		1 bedroom			
		1 occitooni			
	States and District of Columbia (whichever is stringent)				
	<i>β,</i>				
		Express unit			
		1			
		21 1			
on e	Each manufactured home <i>shall</i> (179) be equipped with a telephone and cable	3 bedroom			
11.5 Service Junction Box For Telephone and Cable	inlet. The junction box <i>shall</i> (180) be mounted at a sufficient distance from the	2 bedroom			
un eph	outer edge and beneath the unit to prevent rainwater penetration (Note: A special rain shield <i>shall</i> not be installed.) In addition, the junction box for telephone and	1 bedroom			
ervice Jun For Teleph and Cable	cable <i>shall (181)</i> be located within four feet (4') of the right rear (when facing the				
vic r J d (tongue) of the manufactured home.				
Fo Fo an	tongue) of the manufactured nome.				
5.5 XO					
11. B		Express unit		-	
	12.0 Dlumbing	Express unit	L		
	12.0 Plumbing	3 bedroom			
l w	The manufactured home <i>shall</i> (182) have at three-quarters inch (3/4") main water				
/ste	supply inlet pipe and <i>shall</i> (183) be equipped with a metal, three-quarters inch	2 bedroom			
12.1 Plumbing System	(3/4") master shutoff valve (gate valve).	1 bedroom			
		Express unit			
qu	The manufactured home chall (194) he equipped with a freet free fever (here	3 bedroom			
m	The manufactured home <i>shall</i> (184) be equipped with a frost free faucet (hose				
1 P	bib).	2 bedroom			
[2		1 bedroom			
		Express unit			

	The main water supply pipe <i>shall (185)</i> be comprised of three-quarters inch	3 bedroom		
	(3/4") chlorinated polyvinyl chlorine (CPVC) or Cross-linked polyethylene(PEX)	2 bedroom		
		1 bedroom		
	(6") below the bottom board of the home. The main water supply <i>shall</i> (186) be	1 bearoom		
	equipped with a metal, three-quarters inch (3/4") master shutoff gate valve or ball			
	valve.			
		Express unit		
	Distribution lines <i>shall</i> (187) comply with HUD code. When using CPVC and	3 bedroom		
	PEX, then the piping material used may be run directly to the fixture.	2 bedroom		
		1 bedroom		
-		Express unit		
	The bathroom and washer / dryer area shall (188) be located within the same area	3 bedroom		
	of the home.	2 bedroom		
		1 bedroom		
		Express unit		
	The contractor <i>shall</i> (189) provide access panels in the walls at all points where	3 bedroom		
		2 bedroom		
		1 bedroom		
		Express unit		
	An individual shutoff valve <i>shall (191)</i> be provided at each installed plumbing	3 bedroom		
	fixture except for the tub / shower.	2 bedroom		
		1 bedroom		
		Express unit		
	All units shall (192) be ready to connect up to municipal water or local water	3 bedroom		
	well.	2 bedroom		
		1 bedroom		
		Express unit		
	Note: Water piping <i>shall</i> (193) be tested appropriately for the type of piping used.	3 bedroom		
	When the manufactured home is delivered to FEMA the entire water system <i>shall</i>	2 bedroom		
	(194) be dry without any water in it.	1 bedroom		
		Express unit		
e.	All fixtures <i>shall</i> (195) be provided with an adequate drainage system, each	3 bedroom		
nag em	fixture connecting to a main sewer line. The main sewer line which shall (196)	2 bedroom		
12.2 Drainage System	run below the floor and above the bottom board to the place of exit in the rear of	1 bedroom		
D. S.	the axles.			

		Express unit		
	The sewer line <i>shall (197)</i> exit the home not less than two feet (2') but not more	3 bedroom		
	than three feet (3') behind the rear axle.(It is expected that the manufacturer use a	2 bedroom		
	standard location among the different type of units to allow easier connectivity)	1 bedroom		
	The exit pipe <i>shall</i> (198) protrude at least six inches (6"), but not more than eight			
	inches (8"), from the bottom board, shall (199) have a threaded end, and shall			
	(200) be capped with a removable plastic cap and chain.			
		Express unit		
	The drainage system shall (201) be accessible without removing the wheels	3 bedroom		
	and/or axles during the installation and deactivation (un-installation) process.	2 bedroom		
		1 bedroom		
		Express unit		
	The drainage system shall (202) meet HUD code	3 bedroom		
		2 bedroom		
		1 bedroom		
		Express unit		
	All water lines <i>shall</i> (203) be installed to a point above the flooring in such a	3 bedroom		
	manner that opening of the valves result in the complete drainage of the water	2 bedroom		
	lines. The drain valves <i>shall (204)</i> be brass.	1 bedroom		
		Express unit		
	All units shall (205) be ready to hook up to municipal sewage or an on-site septic	3 bedroom		
	system.	2 bedroom		
		1 bedroom		
		Express unit		
	The manufactured home manufacturer <i>shall (206)</i> provide interior access to the	3 bedroom		
e	water heater. The interior access door <i>shall (207)</i> be appropriately sized and	2 bedroom		
rns	located as to allow easy replacement of the water heater.	1 bedroom		
Fu it		E		-
r/ nen	The water heater compartment <i>shall (208)</i> be labeled as a hot water compartment.	Express unit 3 bedroom		
ate rtn	The water heater compartment <i>snatt</i> (208) be labeled as a not water compartment. The label <i>shall</i> (209) include an admonition that states "No additional items			
Не	should be stored in the compartment."	2 bedroom		
er	should be stored in the compartment.	1 bedroom		
Vat C		Express unit		
12.3 Water Heater / Furnace Compartment	The compartment <i>shall (210)</i> have a light fixture and bulb to allow for	3 bedroom		
12.	maintenance. The light shall (211) be equipped with a light switch and shall			
1	maintenance. The light shall (211) be equipped with a light switch and shall	2 bedroom	l	

		Express unit		
	Access shall (213) be provided through a door that is keyed with a single master	3 bedroom		
	key.	2 bedroom		
	The master key for access to the hot water compartment shall (214) be unique	1 bedroom		
	and not match any other key used for interior or exterior locks providing access			
	to the manufactured home unless specifically designated (e.g., fire sprinkler			
	compartment). See requirement for "Water Heater Compartment Standard Key."			
		Express unit		
	The manufacturer shall (215) ensure that there is adequate warm air from the	3 bedroom		
	interior of the manufactured home into the water heater compartment so that the	2 bedroom		
	water heater compartment is maintained at a temperature high enough that water	1 bedroom		
	stored in the water heater or flowing through the compartment piping does not			
	freeze.			
		E :		
	There <i>shall</i> (216) not be an exterior door that provides access to the water heater	Express unit 3 bedroom		
	compartment.			
		2 bedroom		
		1 bedroom		
		Express unit		
	If the manufactured home is equipped with a split HVAC system, then the air handler and the furnace portion of the HVAC <i>shall</i> (217) be placed in the water	3 bedroom		
	heater / furnace compartment.	2 bedroom		
		1 bedroom		
		Express unit		
	A 40-gallon electric dual element quick recovery water heater <i>shall</i> (218) be installed. The water heater <i>shall</i> (219) be complete with a pressure relief valve, corrosion resistant drain pan, and a metal tank drain valve.	3 bedroom		
		2 bedroom		
		1 bedroom		
er		Express unit		
eat	The valves and drain pan <i>shall</i> (220) be separately piped four inches (4") to six	3 bedroom		
H	inches (6") below the bottom board of the home and <i>shall (221)</i> be at least five	2 bedroom		
ter	inches (5") away from the water inlet pipe. The corrosion resistant water drip collection pan, relief valve, and corrosion resistant drain pan <i>shall</i> (222) be	1 bedroom		
×	separately piped to the exterior.			
12.4 Water Heater	separately piped to the exterior.	Express unit		
12	Piping <i>shall</i> (223) be installed at the factory.	3 bedroom		
	1 iping shan (223) of histalica at the factory.	2 bedroom		
		1 bedroom		
		Express unit		

	Relief valve <i>shall (224)</i> be placed to exterior but pointed down with downward	3 bedroom
	directed outlet to ground.	2 bedroom
		1 bedroom
		Express unit
- 2	All faucet assemblies in the home <i>shall (225)</i> include secondary shutoff valves	3 bedroom
12.5 Plumbing Controls and Faucet	(one for each the hot and cold water supply). The secondary shutoff <i>shall</i> (226) be	2 bedroom
12.5 imbi ontro Fau	located in close proximity to the faucet assembly (i.e., under the sink).). A	1 bedroom
	secondary shutoff valve is not required for the tub/shower assembly.	1 beardoni
		Express unit
	13.0 Attic	
	The contractor <i>shall</i> (227) install a reflective insulation system in the attic with	3 bedroom
	either a radiant barrier or reflective insulation product as a component. A radiant	2 bedroom
er	barrier is made of highly reflective material and may be reinforced with a middle	1 bedroom
rri	fabric layer making it puncture and tear resistant.	
Ba		
l t		Express unit
13.0 Radiant Barrier	Radiant barrier insulation <i>shall</i> (228) be energy star compliant: ninety-five to	3 bedroom
Ra	ninety-seven percent (95-97%) of the radiant heat will reflect back to its source	2 bedroom
3.0	when installed properly. Radiant reflective paint [Interior Radiation Control	1 bedroom
= =====================================	Coatings (IRCC)] is not acceptable.	
		Express unit
	14.0 Structural System	
	The main frame of the unit <i>shall</i> (229) be a twelve inch (12") steel I-beam	3 bedroom
ain		2 bedroom
Ä		1 bedroom
pu		Express unit
n n	The contractor <i>shall (230)</i> provide and install two (2) additional I-beams of the	3 bedroom
ten	same material and composition as the main frame <i>shall (231)</i> extend a minimum	2 bedroom
Sys	of eighteen inches (18") on each side of the axle group, with each additional I-	1 bedroom
am S	beam measuring fourteen feet (14'0") minimum in length.	
atio Fr	TEL 112 171 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Express unit
orta	The additional I-beams <i>shall</i> (232) be installed in accordance with DAPIA	3 bedroom
sbc	approved designs and centered over the axle area in such a manner that the main	2 bedroom
an	frame I-Beam is doubled forward and aft through the axle area.	1 bedroom
T		Express unit
1.1	The frame <i>shall (233)</i> be secured to the floor joist system and the frame	3 bedroom
14.1 Transportation System and Main Frame	The frame <i>shall</i> (233) be secured to the floor joist system and the frame alignment <i>shall</i> (234) be maintained by installing appropriate steel fasteners and lag bolts at every floor joist	3 bedroom 2 bedroom 1 bedroom

		Express unit		
	The contractor <i>shall (235)</i> provide documentation that the manufactured home	3 bedroom		
	complies with 24 CFR 3280.903.	2 bedroom		
	•	1 bedroom		
		Express unit		
	The manufacturer <i>shall</i> (236) provide and install industry standard tapered	3 bedroom		
	outriggers (minimum twelve gauge), preformed C- or Z-type, and twelve (12)	2 bedroom		
	gauge outriggers having a base of nine inches (9") nominal	1 bedroom		
		Express unit		
	Outriggers <i>shall (237)</i> be installed the entire length of the home at forty-eight	3 bedroom		
	inch (48") on center (o.c.). The outriggers <i>shall</i> (238) be mounted to the main	2 bedroom		
	frame I-Beam by DAPIA approved on both sides. The outriggers <i>shall</i> (239)	1 bedroom		
Š	terminate flush with the perimeter floor joist and be secured at this point with a	1 bearoom		
ger	lag bolt.			
, <u>F</u>				
ut		Express unit		
5 0	Additional outriggers shall (240) be provided and installed at each location where	3 bedroom		
14.2 Outriggers	a shackle (spring hanger) is mounted to the main frame I-Beam.	2 bedroom		
		1 bedroom		
		Express unit		
	Tolerances <i>shall</i> (241) be in compliance with the DAPIA approved designs and	3 bedroom		
	specifications.	2 bedroom		
	specifications.	1 bedroom		
		Express unit		
	The contractor <i>shall (242)</i> provide and install front and rear cross-members	3 bedroom		
14.3 Front/Rear Cross-Members	(aprons). Each cross-member <i>shall</i> (243) be the width of the unit and constructed	2 bedroom		
nb /R	of a minimum twelve inch (12") I-Beam. Each cross-member <i>shall</i> (244) be	1 bedroom		
ont Aeı	fastened to the front and rear perimeter floor joists, respectively, with a minimum	1 bearoom		
Fr. S-N	of six (6) lag bolts evenly spaced from corner to corner along the length of the			
.3 Fos	cross-member.			
4 D		Express unit		
	The contractor <i>shall (245)</i> provide and install cross-members. The cross-	3 bedroom		
14.4 Cross- Members	members <i>shall</i> (246) be installed the entire length of the home, located between	2 bedroom		
7.4.4 30.5 30.0 30.0	the two main frame I-Beams, be forty-eight inches (48") on center, and in	1 bedroom		
14.4 Cross-	accordance with the DAPIA approved designs and specifications.	2		
		Express unit		
0 n n	All lag bolts shall (247) be at least five-sixteenths of an inch by three inches	3 bedroom	 	

	(5/16" x 3"; acceptable alternative is 9 mm x 76 mm) and be fully threaded. At	2 bedroom		
	least one lag bolt <i>shall</i> (248) be used to connect each outrigger to the perimeter	1 bedroom		
	joist and at least one lag bolt <i>shall</i> (249) be used to connect the 1" x 1 1/2" x 12	1 occioom		
	gauge clip that is welded to each main I-beam and connected to each floor joist at			
	sixteen inches (16") on center.			
	Sixteen menes (10) on center.			
		Express unit		
a c	All exposed surfaces of the entire frame <i>shall</i> (250) be completely coated after	3 bedroom		
14.6 Coating	welding. This coating <i>shall (251)</i> be waterproof. The serial number <i>shall (252)</i> be	2 bedroom		
14 (0a)	painted with rust resistant contrasting color paint, 2 inches (2") tall.	1 bedroom		
		Express unit		
	The floor joists <i>shall (253)</i> be two inches by eight inches (2" x 8") nominal and	3 bedroom		
	run transverse to the length of the unit. Floor joists <i>shall</i> (254) be spaced sixteen	2 bedroom		
ists	inches (16") on center and splicing of the floor joists is not acceptable. A two	1 bedroom		
Joi	inches by eight inches (2" x 8") nominal rim member shall (255) be installed to			
0 r	enclose the floor perimeter. The floor joists <i>shall (256)</i> be SPF # 2 or better or			
	equivalent.			
14.7 Floor Joists				
4	Note: Alternatives methods used <i>shall</i> be approved by the DAPIA prior			
	submission.			
		Express unit		
	The floor decking <i>shall</i> (257) be composed of 3/4" (23/32") minimum thickness	3 bedroom		
	material that meets the requirements set forth in 24 CFR 3280.308; panels with	2 bedroom		
	joists spacing index of 24 (long edges of the panel shall (258) be tongue and	1 bedroom		
	groove, and with sixteen inches (16") on center floor joists). The decking should			
14.8 Floor Decking	be placed perpendicular to the joist length.			
- Kri				
De		Express unit		
0 r	If plywood is used, plywood shall (259) be installed tongue and groove and	3 bedroom		
	secured in such a manner that the wood ends terminate on structural members for	2 bedroom		
∞.	proper securing	1 bedroom		
4		Express unit		
	Floor shall (260) be designed and constructed to resist floor loads to which it may	3 bedroom		
	be exposed.	2 bedroom		
		1 bedroom		
		Express unit		
n n	Floor and ceiling cavities <i>shall</i> (261) be insulated with flame retardant insulation	3 bedroom		
14.9 Floor and Ceilin	and shall (262) have a minimum R rating of nineteen(R-19) in accordance with	2 bedroom		
	24 CFR 3280.506.	1 bedroom		
1				

		Express unit
	Condensation control (vapor barriers) shall (263) be installed in accordance with	3 bedroom
	section 24 CFR 3280.504.	2 bedroom
		1 bedroom
		Express unit
	The interior height of the ceiling <i>shall</i> (264) be eight feet (8').	3 bedroom
		2 bedroom
14.10 Ceiling Height		1 bedroom
		Express unit
0 C	The ceiling <i>shall</i> (265) have a nominal height between seven feet eleven inches	3 bedroom
1.4 F	(7' 11") and eight feet one inch (8' 1").	2 bedroom
-		1 bedroom
		Express unit
	A minimum one inch by three inch (1" x 3") bottom plate <i>shall</i> (266) be installed	3 bedroom
	at all locations of interior walls	2 bedroom
		1 bedroom
		Express unit
	All interior walls studs <i>shall</i> (267) be framed (studded) with minimum two inch	3 bedroom
S	by three inch (2" x 3") nominal lumber spaced on 16" centers.	2 bedroom
14.11 Interior Walls		1 bedroom
j.		
eric		Express unit
Internation	Interior walls <i>shall</i> (268) be secured to a minimum two inch by three inch (2" x	3 bedroom
=	3") top plate	2 bedroom
4. 7		1 bedroom
		Express unit
	All openings for interior doors and alcoves <i>shall (269)</i> be double framed with the	3 bedroom
	same materials as the interior door study and <i>shall (270)</i> have headers/framing	2 bedroom
	member from the top of the door to the ceiling.	1 bedroom
		Express unit
	Roof trusses <i>shall (271)</i> be installed the entire length of the home with a	3 bedroom
	maximum of sixteen inch (16") on centers (o.c.) and each <i>shall</i> (272) align with	2 bedroom
oof SS	an exterior wall stud.	1 bedroom
R R		Express unit
14.12 Roof Trusses	The exterior walls <i>shall (273)</i> be connected to the roof trusses with a hurricane	3 bedroom
17	strap (also known as hurricane clip).	2 bedroom
	Strap (miss into the distribute only).	1 bedroom
	J	1 octiooni

		Express unit
	The roof trusses <i>shall</i> (274) not be cut for the passage of any electrical, plumbing,	3 bedroom
	and/or mechanical system.	2 bedroom
		1 bedroom
		Express unit
	Exterior roof coverings <i>shall</i> (275) be secured to minimum three-eighths inch	3 bedroom
	(3/8") structural rating sheathing. See Part 3280.305 (HUD Standard, Table of	2 bedroom
	Design Wind Pressures, Footnote 7).	1 bedroom
		Express unit
	The exterior wall framing (studs) <i>shall</i> (276) be two inches by six inches (2" x	3 bedroom
	6") nominal installed at a maximum spacing no greater than sixteen inches (16")	2 bedroom
	o.c., and secured to the top and bottom plate	1 bedroom
		Express unit
	The strapping of the wall studs to roof trusses and perimeter joists <i>shall</i> (277) be	3 bedroom
	twenty-six (26) gauge minimum steel straps or brackets at sixteen inches (16")	2 bedroom
	o.c to conform to the requirements of Wind Zone III conforming to 24 CFR	1 bedroom
	3280.305 (e)(2).	
		Express unit
500	The exterior walls <i>shall</i> (278) be connected to the roof trusses with a hurricane strap (also known as hurricane clip).	3 bedroom
		2 bedroom
≥		1 bedroom
ior		Express unit
ter	The exterior walls <i>shall</i> (279) be insulated with flame retardant insulation having a minimum R rating of nineteen (19).	3 bedroom
EX		2 bedroom
14.13 Exterior Walls		1 bedroom
4.		Express unit
	Condensation control (vapor barriers) <i>shall</i> (280) be installed in accordance with	3 bedroom
	Part 3280 (HUD Standard) 24 CFR 3280.504.	2 bedroom
		1 bedroom
		Express unit
	The insulation <i>shall (281)</i> be "batt" wall insulation for this application.	3 bedroom
		2 bedroom
		1 bedroom
		Express unit
	Anchoring strap <i>shall</i> (282) be secured to each full length wall stud on each side	3 bedroom
	of all double-framed door and window openings. (Straps are not required on jack	2 bedroom
	studs.)	1 bedroom

		Express unit		
	All exterior openings such as windows, doors, drain pipes, etc., <i>shall</i> (283) be	3 bedroom		
	caulked to prevent air and moisture penetration.	2 bedroom		
	pendicular to provide and anomorphisms	1 bedroom		
		Express unit		
	All exterior penetrations (e.g. doors, windows, vents, exterior lighting, and power	3 bedroom		
	outlets) shall (284) be equipped with ice and water shields.	2 bedroom		
	outlets) shall (201) be equipped with fee and water shields.	1 bedroom		
		Express unit		
	Ice and water shield is a peel and stick product that adheres directly to the	3 bedroom		
	building's surface and forms a water-proof barrier. It is also commonly applied in	2 bedroom		
	the valleys of a house as well as around any roof protrusions including; pipe	1 bedroom		
	boots, and roof vents. All areas that are the weakest or most prone to leaking	1 bedroom		
	shall (285) be coated with ice and water shield before installing shingles, or any			
	other roofing products or siding.			
	, , , , , , , , , , , , , , , , , , ,	Express unit		
	The manufacturer <i>shall</i> (286) <i>use</i> Ice and water shield around exterior	3 bedroom		
	penetrations such as doors, windows, vents, exterior lighting, and power outlets	2 bedroom		
	to provide extra protection against water intrusion.	1 bedroom		
		Express unit		
	The unit <i>shall</i> (287) have a minimum 3/8" (11/32") thick structural rated	3 bedroom		
	sheathing on all exterior walls. The exterior sheathing is in addition to the	2 bedroom		
	building wrap.	1 bedroom		
		Express unit		
	J-channel installed <i>shall</i> (288) not be punctured with weep holes over windows	3 bedroom		
	and doors. J-channel joints <i>shall</i> (289) not be installed over doors and windows.	2 bedroom		
	3	1 bedroom		
		Express unit		
	House wraps <i>shall</i> (290) be permeable weather barriers which allow air and water	3 bedroom		
ď	to escape from, but not enter, the unit. The house wrap <i>shall</i> (291) be installed in	2 bedroom		
Vra	accordance with the house wrap manufacturer's instructions. The manufactured	1 bedroom		
e A	home manufacturer shall (292) provide the house wrap installation instructions to	1 occioom		
sno	FEMA upon request.			
H				
14.14 House Wrap		Express unit		
4.	In addition to house wrap, all exterior penetrations (e.g. doors, windows, vents,	3 bedroom		
	lighting, and power outlets) shall (293) be equipped with ice and water shields.	2 bedroom		

		1 bedroom
		Express unit
	All warm air supply ductwork <i>shall (294)</i> be constructed of metal or insulated	3 bedroom
±	fiberglass materials and be complete with joint stays and sealed ends.	2 bedroom
 		1 bedroom
N 0I		Express unit
lct,	Closure systems consisting of tapes or mastics, or polymeric mechanical fasteners	3 bedroom
Dī	shall (295) be evaluated and meet the requirements of UL 181A and/or UL	2 bedroom
oly	181B	1 bedroom
ldr (a		
r Sr		Express unit
Aii Aic	All seams shall (296) be sealed with UL 181A and/or 181B -listed duct mastic	3 bedroom
m dd	tape, which will be verified before acceptance, with mechanical fastening to	2 bedroom
ste	ensure airtight construction with a maximum three percent (3%) duct loss. No	1 bedroom
S	construction debris or sawdust may be left in the duct system.	
4C		
X		Express unit
14.15 HVAC System Air Supply Ductwork(If Applicable)	The manufacturer shall (297) ensure that there are air no leaks	3 bedroom
4.1		2 bedroom
-		1 bedroom
		Express unit
	Each home <i>shall</i> (298) be equipped with vertical and diagonal straps to meet the	3 bedroom
sdi	requirements of 24 CFR 3280.306. The anchors shall (299) be designed to meet	2 bedroom
tra	the requirements for an installation from twenty-five inches to forty-eight inches	1 bedroom
J. 9	(25" to 48") in height and spaced in accordance with the DAPIA approved installation instructions. Anchor straps <i>shall</i> (300) be provided with the	
ਝ	manufactured home. All vertical and diagonal tie straps <i>shall</i> (301) be coated	
An	with zinc or other approved galvanic protection that provides at least .60 ounces	
14.16 Anchor Straps	per square foot of surface coating on all exposed sides. The anchor straps <i>shall</i>	
4	(302) not be spliced.	
	(602) 1101 60 3511000.	Express unit
	15.0 Transport and Transportation	
0 0 -	The transportation system commonants shall (202) he installed with leaking puts	3 bedroom
Sp on 1	or lock washers for every bolt.	2 bedroom
Transpo rtation n System		1 bedroom
		Express unit
8	All units <i>shall (304)</i> be equipped new axle assemblies.	3 bedroom
15.2 Axles	, , , , , , , , , , , , , , , , , , , ,	2 bedroom

]	Express unit			
	The DAPIA shall (305) be made aware that FEMA may store the manufactured	3 bedroom			
	homes for a period of up to four (4) years and that FEMA will be transporting the	2 bedroom			
	manufactured homes for distances of up to six-thousand miles (6,000 mi). The	1 bedroom			
	contractor shall (306) require the DAPIA to document the choice of the axles and				
	indicate that the axles meet the requirements				
		Express unit			
	The contractor <i>shall (307)</i> specify the number of axles for the Manufactured	3 bedroom			
	Homes.	2 bedroom			
		1 bedroom			
		Express unit			
	The weight supported by each axle shall (308) not exceed 80% of the total rated	3 bedroom			
	capabilities of the axle.	2 bedroom			
		1 bedroom			
		Express unit			
	The number of axles shall (309) meet the requirements for the States where the	3 bedroom			
	Manufactured Home could be deployed.	2 bedroom			
		1 bedroom			
		Express unit			
	Axles shall (310) be rated at the appropriate weight at sixty five miles per hour	3 bedroom			
	(65 mph).	2 bedroom			
		1 bedroom			
		Express unit			
	For all manufactured home types the contractor <i>shall (311)</i> ensure and provide	3 bedroom			
	documentation that the weight of the manufactured home does not exceed the	2 bedroom			
	allowable weight for the number of axles provided. The weight of the	1 bedroom			
	manufactured home <i>shall (312)</i> be calculated to include all items that are shipped				
	with the manufactured home including all furniture and fixtures as well as any				
	options exercised				
		Express unit			
	Axles shall (313) include grease fittings to facilitate maintenance of the axle hubs	3 bedroom			
15.3 Axle Lubrication	and bearings. The grease fittings <i>shall</i> (314) be secured from environmental	2 bedroom			
xle atic	conditions when not being accessed during maintenance. The grease fittings (also known as grease nipples, Zerk fittings, Alemite fittings, Bearing Buddies, and	1 bedroom			
3 A rica	other names) are acceptable as long as their function is similar to fittings that are				
15. ubi	permanently installed by a threaded connection, leaving a nipple connection that				
, , <u>,</u>	the grease gun attaches to				
	are greate gair attaches to	Express unit			
B Le	Wheel bearings <i>shall (315)</i> meet the minimum requirements of SAE. Wheel	3 bedroom		 	

	bearing capacity shall (316) exceed maximum axle load capacity and the tire load	2 bedroom	
	capacity	1 bedroom	
		Express unit	
	The minimum required operating life <i>shall (317)</i> be three-thousand hours (3,000	3 bedroom	-
	hrs)	2 bedroom	
		1 bedroom	
		Express unit	-
	All axles <i>shall (318)</i> be equipped with electrically operated brakes 49 CFR	3 bedroom	
	Section 393.42).	2 bedroom	
		1 bedroom	-
		Express unit	
8	The brakes shall (319) meet or exceed the brake performance requirements of	3 bedroom	-
ake	FMCSA 49 CFR Section 393.52, in combination with the towing vehicle	2 bedroom	
Br		1 bedroom	
15.5 Brakes		Express unit	
—	For the Express 1-Bedroom units, the brake system <i>shall (320)</i> have the	3 bedroom	
	capability of meeting the performance requirements of FMCSA 49 CFR	2 bedroom	
	393.43(d) when equipped with a battery. An appropriate battery box and wiring	1 bedroom	
	shall (321) be built into the unit		
		Express unit	
	Threshold: Springs <i>shall</i> (322) be of the multi-leaf type and appropriately rated	3 bedroom	
Sgu	with an over the axle mounting assembly (shackles, bolts, bushings, etc.).	2 bedroom	
) Jrij	Shackles <i>shall</i> (323) be secured to the main frame I-beams by continuous weld.	1 bedroom	
S. S.	Ontional. The manufactures has the action to utilize a torsion has examined		
15.6 Springs	Optional: The manufacturer has the option to utilize a torsion bar suspension. This option could require an ACL.		
	This option could require an ACL.	Express unit	
	All tires and rims <i>shall</i> (324) be new and free of defects. The manufacturer <i>shall</i>	3 bedroom	
su	(325) specify the tires and rims to meet or exceed the minimum US DOT	2 bedroom	
Ri.	requirements of FMVSS 571.110 for trailers of 10,000 lbs or less or 571.120 for	1 bedroom	$\overline{}$
pu	trailers more than 10,000 lbs.	1 occitooni	
la s		Express unit	
15.7 Tires and Rims	Rim clamps, bolts, nuts or other related tire-mounting hardware shall (326) be	3 bedroom	
	new.	2 bedroom	
<u>5.</u>		1 bedroom	
, ,		Express unit	
~ \$.	The drawbar <i>shall (327)</i> be three feet to four feet (3'-4') and be welded not	3 bedroom	
15.8 Draw bar	bolted.	2 bedroom	
		1 bedroom	

		Express unit	
	The drawbar ("A" frame) <i>shall (328)</i> be installed in such a manner that it is	3 bedroom	
	centered for proper towing and is secured by continuous weld to two (2) points	2 bedroom	
	on the front cross-member and two (2) points on the main frame I-beam. A cross-	1 bedroom	
	member of the same material as the drawbar <i>shall (329)</i> be secured to the inside		
	of the drawbar by continuous weld. The cross-member shall (330) be located		
	midway between the coupler hitch and the buck plates. An additional cross-		
	member shall (331) be installed and secured by continuous weld inside the		
	drawbar at the point where the drawbar legs are welded to the main frame I-beam		
		Express unit	
	All welds on the drawbar shall (332) be primed and painted with rust	3 bedroom	
	preventative paint to ensure that the welds are protected from the elements.	2 bedroom	
		1 bedroom	
		Express unit	
★	The screw jack <i>shall (333)</i> be the industry standard bolt in type and capable of	3 bedroom	
cre	supporting 120% the calculated weight that is going to be transferred to the	2 bedroom	
15.9 Screw Jack	screw jack. Also, it <i>shall (334)</i> have galvanized protection coating with at least	1 bedroom	
5.	.30 ounces/sq-ft.		
	1.0.1	Express unit	
	1-Bedroom Express units <i>shall</i> (335) be equipped with permanent lighting per	3 bedroom	
ioi i	USDOT NHTSA FMVSS 571.108.	2 bedroom	
15.10 Transportation Lighting		1 bedroom	
15.10 Isports ightin		Express unit	
15 nsp Lig	2 and 3-Bedroom units <i>shall</i> (336) be transported with lighting compliant with	3 bedroom	
ra J	FMCSA 49 CFR Section 393.17.	2 bedroom	
F		1 bedroom	
		Express unit	
	16.0 Exterior Coverings	T	 T T
	Unit siding <i>shall (337)</i> be the manufacturer's standard Vinyl siding or similar	3 bedroom	
g	(color: light grey) in accordance with 24 CFR 3280.307. Siding and corners shall	2 bedroom	
ig	(338) be the same color.	1 bedroom	
r Si		Express unit	
Exterior Si Covering	Soffits, trim and J-block <i>shall (339)</i> either be the same color, or white. J-channel	3 bedroom	
ove	shall (340) not be punctured with weep holes or joints over windows and doors.	2 bedroom	
强 O		1 bedroom	
16.1 Exterior Siding Covering		Express unit	
<u> </u>	The exterior siding shall (341) be installed in accordance to manufacturer	3 bedroom	
	instructions	2 bedroom	

		1 bedroom		
		Express unit		
× ×	The manufactured home <i>shall (342)</i> not have window shutters	3 bedroom		
do do ter		2 bedroom		
16.2 Window Shutters		1 bedroom		
		Express unit		
g	All roof assemblies <i>shall</i> (343) include non-rust drip edge. Drip edges <i>shall</i> (344)	3 bedroom		
of serij	not have joints over the doors or windows	2 bedroom		
16.3 Roof Coverin gs		1 bedroom		
		Express unit		
	The roof <i>shall (345)</i> be installed within the manufacturer's standard and	3 bedroom		
	constructed with adequate ventilation.	2 bedroom		
		1 bedroom		
		Express unit		
	All roof penetrations (e.g. vents) shall (346) be equipped with ice and water	3 bedroom		
		2 bedroom		
		1 bedroom		
tior		Express unit		
tect	cemented together or a self-adhering polymer modified bitumen sheet, <i>shall (347)</i> be provided and extend from the lowest edges of all roof surfaces to at least	3 bedroom		
rot		2 bedroom		
16.4 Access/Egress water protection 1.1		1 bedroom		
ate	twenty-four inches (24") beyond the exterior wall.	Evennoss unit		
3 x	The roof shall (348) have a shingle roof covering to resist the loads indicated in	Express unit 3 bedroom		
res 1.		2 bedroom		
E	the Table of Design which ressures in 24 CFR 3200.303.	1 bedroom		
/ss		Express unit		
))	The Roof <i>shall (349)</i> have a Light or white colored composition shingle with a	3 bedroom		
-	minimum solar reflectance equal to or greater than Energy Star specifications for	2 bedroom		
6.9	roof products.	1 bedroom		
_	1001 production	1 bearoom		
		Express unit		
	All roof penetrations <i>shall (350)</i> be capped with a galvanized metal cap. The	3 bedroom		
	galvanized metal caps <i>shall</i> (351) be primed and painted, so as to prevent rust.	2 bedroom		
	The color should match the exterior roof color. Rubber grommets <i>shall</i> (352) not	1 bedroom		
	be used.			
		Express unit		
	Roof shall (353) have shape, materials and details that do not allow the entry of	3 bedroom		

	water into the unit.	2 bedroom		
	water into the unit.	1 bedroom		
		Express unit		
	The manufacturer <i>shall (354)</i> provide a mean to minimize water flowing from the	3 bedroom		
	roof of the manufactured home into the access/egress doorway area.			
	If it is a non-permanent solution and it <i>shall (355)</i> be properly packed and	2 bedroom		
	secured so it does not damage the Manufactured Home during transportation. The	1 bedroom		
	Solution <i>shall</i> (356) be selected so that tools used for the installation <i>shall</i> (357)			
	be Standard tools typically used to install a manufactured home			
	be Standard tools typically used to install a manufactured nome			
		Express unit		
_	The Bottom board of the home <i>shall (358)</i> be secured under the entire home,	3 bedroom		
	moisture resistant, so as to prevent rodents from entering the unit. The underside	2 bedroom		
	of the home $shall (359)$ be enclosed and meet 24 CFR 3280.305(g)(6).	1 bedroom		
		1 bedroom		
16.5 Bottom Board		Express unit		
308	Plastic materials <i>shall (360) be a</i> minimum of twenty (20) mil thickness.	3 bedroom		
l E	Allowance to install cross tie anchoring buckles <i>shall (361)</i> be made Allowance	2 bedroom		
<u> </u>	to install cross tie anchoring buckles <i>shall (362)</i> be made	1 bedroom		
Bo	~			
ν.	Multiple layers of acceptable material [24 CFR 3280.305(g)(6)] could be used			
16	to meet the twenty (20) mil thickness requirement.			
		Express unit		
	The contractor <i>shall (363)</i> install wooden board or other material that <i>shall (364)</i>	3 bedroom		
d ge	deflect or prevent material from tire blowouts from damaging the "Bottom"	2 bedroom		
16.5 Bottom Board Tire Blowout / Road Hazard Damage	Board" or other items above the tires.	1 bedroom		
16.5 Bottom Board Tire lowout / Ros azard Dama Mitigation	Bourd of other nomb doore the theo.	1 bediooni		
out de la gig	The material <i>shall (365)</i> be of a type that <i>shall (366)</i> endure multiple			
6.5 30a 9wc zar Zar	manufactured home transportation, storage, and installation/deactivation cycles			
Hay Hay	without rotting or rusting.			
		Express unit		
	17.0 Interior Covering			
++	The manufactured home <i>shall (367)</i> have an off-white interior color with semi-	3 bedroom		
17.1 Paint	gloss finish.	2 bedroom		
F		1 bedroom		
7.1	Walls shall (368) be primed prior to painting unless the surface is painted using a			
7	combination of primer coat and a minimum of two coats of /paint.			

		Express unit	
	Walls, molding, and trim paint shall (369) be antimicrobial low volatile organic	3 bedroom	
	compound(VOC)	2 bedroom	
		1 bedroom	
		Express unit	
	Shall (370) be constructed using moisture / mold resistant materials.	3 bedroom	
		2 bedroom	
		1 bedroom	
		Express unit	
	All panels <i>shall</i> (371) begin and terminate on wall studs. All panel joints <i>shall</i>	3 bedroom	
	(372) be made flush as possible and covered with adequate joint compounds or	2 bedroom	
	molding strips.	1 bedroom	
		Express unit	
		3 bedroom	
	joint compounds or molding strips.	2 bedroom	
- SIIIs		1 bedroom	
17.2 Walls		Express unit	
7.2	All panels <i>shall (373)</i> be secured to each wall stud it comes in contact with.	3 bedroom	
=		2 bedroom	
		1 bedroom	
		Express unit	
	All outside corners shall (374) be reinforced with corner guards, either	3 bedroom	
	metal(non-corrosive) that is free of burrs or sharp points or edges and are covered	2 bedroom	
	by adequate joint compound, or wood molding so that the corner is protected. Batten strips are not acceptable for dry wall / sheet rock joints	1 bedroom	
	Batteri strips are not acceptable for dry wan / sneet rock joints	Express unit	
	All joints, except when using molding strips, <i>shall (375)</i> have a Level 5 finish, as	3 bedroom	
	specified in Gypsum Association, GA-214 "Recommended Levels of Gypsum	2 bedroom	
	Board Finish", prior to priming	1 bedroom	
	, _F	1 bedroom	
		Express unit	
	All trim molding used in the home <i>shall (376)</i> be color matched or color	3 bedroom	
* ing	coordinated to the interior paneling. All seals, joints, door and window frames,	2 bedroom	
	corners (in plain view or not), etc., shall (377) be finished with appropriate	1 bedroom	
17.3 Molding and Trim	matching moldings.		
ar			

	All exposed panel edges, such as access panels, <i>shall (378)</i> be covered with permanently attached non-plastic edging.			
		Express unit		
	Prior to delivery, the manufacturer <i>shall (379)</i> ensure that all joints (between trim	3 bedroom		
	and walls, molding and walls, molding and floors, etc.) shall (380) be sealed and	2 bedroom		
	caulked with appropriate caulking material to ensure that there is a tight seal.	1 bedroom		
		Express unit		
50 70	The manufacturer shall (381) construct the manufactured home ceiling using	3 bedroom		1
17.5 Ceiling Panels	industry standard methods.	2 bedroom		
17 Zeij		1 bedroom		<u> </u>
		Express unit		
	All interior floor covering <i>shall</i> (382) be durable and low maintenance, be	3 bedroom		
	continuous roll without seams, resilient, and non-skid floor covering.	2 bedroom		
S		1 bedroom		
l g		Express unit		
eri	Carpet is not acceptable anywhere in the home with the following exception. A mat approximately thirty inches by fifteen inches (30" x 15") <i>shall (383)</i> be placed at each entrance as a door mat.	3 bedroom		
, 6		2 bedroom		
17.6 Floor Coverings		1 bedroom		
		Express unit		
7.6	If heat duct are installed in the floor, openings shall (384) be covered with a four	3 bedroom		1
	inch by ten inch (4" x 10") minimum, metal, adjustable louvered covering	2 bedroom		
	(register).	1 bedroom		
		Express unit		<u> </u>
	18.0 Heating / Air Conditioning/ Vo	entilation		
	FEMA HVAC systems <i>shall (385)</i> be one of the following:	3 bedroom		
		2 bedroom		
ms	Central Air Conditioner/Split System	1 bedroom		
ste	The installation of a central air condition unit requires duct work and pipe work.			I
18.1 HVAC Systems	Packaged Unit Unlike the split system, the packaged unit has all the components of the air conditioning system all in one place. The unit itself requires duct work, power line and drain piping.			

	Mini Split / Ductless Split			
	The split systems have an exterior condenser and an indoor evaporator unit that houses the cooling coil, a fan, controls to which you can add indoor blowers. Some models are designed to have more than one evaporators connected to the condenser unit. Each evaporator blower is mounted high on a wall inside the unit/room you want to cool.			
		Express unit		
	HVAC systems <i>shall (386)</i> not transmit mechanical energy, potential and kinetic	3 bedroom		
	energy(i.e. Vibration), to the chassis of the MH that would lead to generate	2 bedroom		
	sounds and/or vibrations that will affect the comfort of the occupants	1 bedroom		
	The manufacturer can utilize different methods to absorb and/or dissipate the effects of the mechanical energy			
		Express unit		
	according to the thermal zone that the unit is going to be built or <i>shall</i> (388) be	3 bedroom		
ಡ		2 bedroom		
\re		1 bedroom		
18.2 HVAC Geographic Area		E		
gra	The Manufacturer <i>shall (389)</i> meet HUD code.	Express unit 3 bedroom		
eo.	The Manufacturer shall (509) meet 110D code.	2 bedroom		
9 ລ		1 bedroom		
/A(Express unit		
H	The unit shall (390) obtain a 3280.510 Heat loss certificate and/or a 3280.511	3 bedroom		
8.2	Comfort cooling certificate and information as required by HUD code	2 bedroom		
<u> </u>		1 bedroom		
		Express unit		
	The unit <i>shall</i> (391) be equipped with at least a ninety-five percent (95%)	3 bedroom		
	efficient electric furnace (central heating system) capable of maintaining an	2 bedroom		
ace	average of seventy degrees Fahrenheit (70°F) temperature in the manufactured	1 bedroom		
18.3 Furnace	home. The furnace <i>shall (392)</i> be able to maintain the temperature based on the			
F	coldest average temperature of the operating area of the manufactured home.			
8.3		Express unit		
1	The electric furnace (central heating system) <i>shall (393)</i> operate according to 24	3 bedroom		
	CFR 3280.510. The furnace shall (394) also be built or equipped for the	2 bedroom		

	installation of a split type air conditioner and have enclosed space in water heater/furnace compartment ,for an A-coil evaporator unit, and with a 4-wire thermostat connects connections completely wired and installed.	1 bedroom	
		Express unit	
	Each furnace <i>shall (395)</i> have instructions attached to the furnace. The furnace	3 bedroom	
	shall (396) be complete with a factory-supplied base suitable for a forced air duct	2 bedroom	
	distribution system.	1 bedroom	
		Express unit	
	If the HVAC system has a separate furnace / air conditioning condenser, the	3 bedroom	
	furnace / air handling unit <i>shall</i> (397) be enclosed in the water heater / furnace	2 bedroom	
	compartment.	1 bedroom	
		Express unit	
	3 bedroom: The output shall (398) not be less than forty-thousand (40,000) BTU	3 bedroom	
	and in accordance with Subpart F of 24 CFR 3280 and Subpart H of 24 CFR 3280.	2 bedroom	
		1 bedroom	
		Express unit	
	2 bedroom: The contractor shall (399) specify the output for the 2-Bedroom	3 bedroom	
	units. The HVAC <i>shall (400)</i> be designed and built in accordance with <i>Subpart F</i>	2 bedroom	
	of 24 CFR 3280 and Subpart H of 24 CFR 3280.	1 bedroom	
		Express unit	
	1 bedroom: The contractor shall (401) specify the output for the 1-Bedroom	3 bedroom	
	units. The HVAC <i>shall</i> (402) be designed and built in accordance with <i>Subpart F</i>	2 bedroom	
	of 24 CFR 3280 and Subpart H of 24 CFR 3280.	1 bedroom	
		Express unit	
	Express unit: The contractor shall (403) specify the output for the express units.	3 bedroom	
	The HVAC <i>shall</i> (404) be designed and built in accordance with <i>Subpart F of 24</i>	2 bedroom	
	CFR 3280 and Subpart H of 24 CFR 3280.	1 bedroom	
		Express unit	
_	The manufactured home <i>shall (405)</i> be equipped with a specifically engineered	3 bedroom	
18.4 Air Condition er	Heating, Ventilation and Air Conditioning (HVAC) system based on the size and	2 bedroom	
.4	intended use of the manufactured home, in accordance with ACCA Manual J	1 bedroom	
18, 7on	requirements, that is compatible with the furnace and unit size. The contractor		
	shall (406) provide FEMA with documentation, engineering calculations and		

	specifications upon request.			
	apromote apromote to promote the second seco			
		Express unit		
	The Air Conditioner <i>shall (407)</i> be able to maintain an average of seventy-five	3 bedroom		
	degrees Fahrenheit (75°F) temperature in the manufactured home and obtain	2 bedroom		
	HUD required certificate (§ 3280.511 Comfort cooling certificate)	1 bedroom		
		Express unit		
	Supply Ducts:	3 bedroom		
	If applicable, Supply ducts <i>shall (408)</i> be located in the	2 bedroom		
		1 bedroom		
		Express unit		
	Thermostat:	3 bedroom		
	The thermostat <i>shall (409)</i> be a digital readout with automatic settings from heat /	2 bedroom		
	cool.	1 bedroom		
		Express unit		
	The HVAC system <i>shall (410)</i> be equipped with a damper that <i>shall (411)</i> allow	3 bedroom		
ט	for the adjustment of the mixture of fresh air entering the manufactured home	2 bedroom		
18.5 HVAC Damper	through the HVAC system. The damper <i>shall (412)</i> be designed in such a way	1 bedroom		
H	that a technician will be needed to adjust the damper setting. The damper <i>shall</i> (413)be set to meet the 24 CFR 3280.103(b) requirements for whole			
3.5 Da	This requirement does not apply for Mini Split Systems; however 24 <i>CFR</i>			
32	3280.103(b) requirements shall be met.			
	3280.103(b) requirements shall be met.	Express unit		
	If a Dehumidifier is required to meet specific thermal Zone requirements, the	3 bedroom		
18.6 Dehumidiffer(I f required)	Dehumidifier shall (414) be located in the Water Heater Closet and shall (415)	2 bedroom		
18.6 ehumidifier f required)	be connected to the sanitary sewer system.	1 bedroom		
18.6 midi quir	so connected to the summary so wer system.	1 bearoom		
) num		Express unit		
Det f		P		
	The IIV/AC existence of all (416) he consult the limited at the constant (1.12)	2 h a due		
() =	The HVAC system <i>shall</i> (416) be completely installed at the production facility.	3 bedroom		
/A(This includes duct work, installation manual, and any other materials needed for the installation.	2 bedroom		
HV Illa	the installation.	1 bedroom		
18.7 HVAC Installation		Express unit		
18 In	The HVAC <i>shall (417)</i> be provided with the manufactured home.	3 bedroom		
		2 bedroom		

	1 bedroom
	Express unit
The HVAC <i>shall (418)</i> be the type that is installed on the short side of the home.	3 bedroom
The 11 the show (11 s) so the type that is instanted on the short show of the nome.	2 bedroom
	1 bedroom
	Express unit
The HVAC unit <i>shall (419)</i> not require additional installation when the	3 bedroom
manufactured home is installed.	2 bedroom
	1 bedroom
	Express unit
If the manufacturer provides a split /mini split HVAC system with the air	3 bedroom
condition condenser mounted on the draw bar or extension of the frame at the	2 bedroom
rear of the home. The compressor shall (420) be mounted in such a way as to	1 bedroom
dampen the vibrations and any sound that accompany condenser operation cycles.	1 octionin
The mounted compressor shall (421) be attached in such a way that the there are	
no sharp edges or protrusions and the condenser shall (422) not be damaged in	
any way during transportation or use. If the compressor is mounted on the draw	
bar side of the manufactured home the compressor shall (423) be protected from	
damage when transported/moved.	
	Express unit
	3 bedroom
The HVAC unit condenser <i>shall (424)</i> not produce any unwanted sound that	2 bedroom
disturbs the sleep and comfort of the occupants.	1 bedroom
	F
 ICETMA 1	Express unit 3 bedroom
If FEMA does not exercise the option to shrink wrap the entire manufactured home the contractor <i>shall (425)</i> install a weatherproof covering on the external	
mounted portion of the HVAC that <i>shall</i> (426) prevent water penetration during	2 bedroom
transportation and storage of the manufactured home. The HVAC cover <i>shall</i>	1 bedroom
(427) be designed for one time use, however, the manufactured home may be in	
storage for up to five (5) years and the cover <i>shall</i> (428) protect the HVAC for	
the entire time that it is in storage and being transported to the initial installation	
point. The cover <i>shall (429)</i> be installed in such a way as to not cause damage to	
the HVAC or the manufactured home's siding during storage or removal of the	
cover. This <i>shall</i> (430) include leaving residue after tape is removed.	
	Express unit

	Each bathroom exhaust fan <i>shall (431)</i> be adequately rated for the size (square	3 bedroom	
	footage) of the bathroom, however, at a minimum <i>shall (432)</i> exhaust no less	2 bedroom	
	than seventy-five (75) CFM.	1 bedroom	
=		Express unit	
18.8 Ventilation	Bathroom exhaust fan <i>shall (433)</i> be directly vented to the outside. The	3 bedroom	
lila lila	ventilation fan in the bathroom <i>shall (434)</i> be equipped with a timer that allows	2 bedroom	
enj	the fan to operate for a minimum of sixty (60) minutes prior to turning the fan	1 bedroom	
> ×	off.		
18.		Express unit	
	Kitchen exhaust fan <i>shall (435)</i> exhaust a minimum of one-hundred (100) CFM,	3 bedroom	
	directly vented to the outside.	2 bedroom	
	directly vented to the outside.	1 bedroom	
		Express unit	
	19.0 Fixtures and Receptacl		
	The contractor <i>shall (436)</i> equip the MHU with a "UL" approved weatherproof	3 bedroom	
	exterior lighting fixture and associated wiring <i>shall</i> (437) be provided at each	2 bedroom	
	exterior entrance/exit door. Fixtures <i>shall</i> (438) not be installed where rotation of	1 bedroom	
	bulbs would block exterior door exits. An interior wall switch shall (439) be	1 bedroom	
	installed near the exterior entrance/exit door the light serves.		
		Express unit	
res	The fixture shall (440) be a metal, 150-degree motion-sensing twin flood security	3 bedroom	
L T	light. The color shall (441) be light grey or white. The motion sensing light shall	2 bedroom	
i ii	(442) be installed so that it has a manual override feature. Fixture <i>shall</i> (443) be	1 bedroom	
ior	Energy Star.		
ter			
19.1 Exterior Fixtures		Express unit	
7.1	Appropriate flood light bulbs <i>shall (444)</i> be provided in a secure location in the	3 bedroom	
<u> </u>	kitchen.	2 bedroom	
	Michell.	1 bedroom	
		Express unit	
	All exterior penetrations (e.g. lighting and power outlets) <i>shall (445)</i> be properly	3 bedroom	
	sealed and caulked with proper material and equipped with ice and water shields.	2 bedroom	
	1 1 Triangle	1 bedroom	
		Express unit	
- C	Electrical receptacles <i>shall (446)</i> be installed at convenient locations throughout	3 bedroom	

	the unit. All electrical outlets <i>shall (447)</i> be eighteen inches (18") about the	2 bedroom	
	finished floor. All Switches and thermostat <i>shall</i> (448) set forty-eighth inches	1 bedroom	
	(48") above the finished floor.		
		Express unit	
	Electrical receptacles <i>shall</i> (449) be installed in accordance with industry	3 bedroom	
	standard except that self-contained devices are not permitted.	2 bedroom	
		1 bedroom	
		Express unit	
	Receptacles near wet areas shall (450) be protected with a ground fault circuit	3 bedroom	
	Interrupter (GFCI) The manufacturer <i>shall</i> (451) install a minimum of four (4)	2 bedroom	
	GFCI protected receptacles in the kitchen above the counter.	1 bedroom	
		Express unit	
	The receptacle for the range <i>shall (452)</i> be flush mounted in the wall to the rear	3 bedroom	
	appliance.	2 bedroom	
		1 bedroom	
		Express unit	
	The receptacle for the refrigerator <i>shall (453)</i> be located so it can be unplugged	3 bedroom	
		2 bedroom	
	without moving the refrigerator.	1 bedroom	
		Express unit	
	The unit <i>shall</i> (454) equipped with a side by side electric washer and dryer	3 bedroom	
	hookup	2 bedroom	
		1 bedroom	
		Express unit	
	Each bedroom shall (455) have a receptacle on each wall	3 bedroom	
		2 bedroom	
		1 bedroom	
		Express unit	
	Each home <i>shall (456)</i> be provided with a single outlet heat tape receptacle with	3 bedroom	
r	a weatherproof case, located under the unit and within two feet (2') of the water	2 bedroom	
H)	pipe inlet.	1 bedroom	
Exterotacles (Tape)		Express unit	
Ey tac Ta	The exterior receptacle for the heat tape <i>shall</i> (457) not be a ground fault circuit	3 bedroom	
9.3 cep	interrupter (GFCI). [24 CFR 3280.604(b)(4)(ii)]	2 bedroom	
19.3 Exterior Receptacles(Heat Tape)		1 bedroom	
		Express unit	

	For FEMA "Northern Units" and "CONUS" only:	3 bedroom			
	201 2 2022 1.0.000 Will COLLOS CHILL	2 bedroom			
	In addition to the outlet as described above, all Northern and "CONUS" units	1 bedroom			
	shall (458) have one (1) weatherproof outdoor duplex receptacle that shall (459)	1 000100111			
	also be located under the unit and within two feet (2') of the water pipe inlet.				
	With the single receptacle for heat tape and the additional duplex receptacle, no				
	less than three (3) duplex outlets shall (460) be available under the unit and				
	within two feet (2') of the water pipe inlet. These additional receptacles shall				
	(461) be installed without ground fault circuit interrupter [24 CFR 3280.604(b)				
	(4) (ii)] so that they can be used for additional water connection heat tape.				
	The additional duplex outlet <i>shall</i> (462) be placed on the underside of the				
	manufactured home and not be placed on the side of the home, where it would be				
	accessible and be used when the manufactured home is skirted.				
	This FEMA requirement may need the home manufacturer to request an				
	Alternative Construction letter from HUD.				
		Express unit			
ex ex	the exterior wall of the home, approximately five feet (5') forward of the water inlet and approximately six inches (6") up from the floor level.	3 bedroom			
Veathe proof butdoo Duple		2 bedroom			
Weather proof Outdoor s Duplex Recenta		1 bedroom			
7		Express unit			
	20.0 Safety Equipment	T T		T	1
	Smoke alarms shall (464) be installed as specified in 24 CFR§ 3280.208 Smoke	3 bedroom			
	alarm requirements	2 bedroom			
		1 bedroom			
		Express unit			
ms	Each unit shall (465) have interconnected smoke alarms that utilize the electrical	3 bedroom			
ar	system of the home as the primary power source (with battery back-up included).	2 bedroom			
A	Smoke alarms <i>shall (466)</i> follow NFPA recommendations without affecting	1 bedroom			
0k6	compliance with the 24 CFR§ 3280.208 Smoke alarm requirements and/or the Rugged Base Requirements.				
, ŭ	Rugged Base Requirements.				
20.1 Smoke Alarms		Express unit			
70	Smoke alarms <i>shall (467)</i> be equipped with push-button testing and temporary	3 bedroom			
	silencing devices. Provide a smoke detector in each bedroom and in the living	2 bedroom			
	room / dining / kitchen area. Each MHU <i>shall</i> (468) be equipped with a strobe	1 bedroom			
	component as visual signal of smoke or fire.	1 000100111			

		Express unit
ı	Each manufactured home <i>shall (469)</i> be equipped with a five pound (5 lb) A-B-C	3 bedroom
20.2 Fire Extinguisher	type fire extinguisher and a mounting bracket. The mounting bracket shall (470)	2 bedroom
	be secured to a wall stud in the kitchen / living area.	1 bedroom
		Express unit
	The location of the extinguisher <i>shall (471)</i> follow NFPA recommendations	3 bedroom
		2 bedroom
0.2		1 bedroom
Ä		Express unit
	Each manufactured home <i>shall (472)</i> be equipped with NOAA weather radio in	3 bedroom
	each bedroom and <i>shall (473)</i> be equipped with a strobe component. NOAA	2 bedroom
je.	weather radios shall (474) be approved by Federal Communications Commission	1 bedroom
20.3 NOAA weather radio	(FCC) and National Oceanic and Atmospheric Administration (NOAA).	
her		Express unit
eat	All weather radios <i>shall (475)</i> work with electrical power and battery backup	3 bedroom
×		2 bedroom
₩		1 bedroom
9		Express unit
.3 [6.	All weather radios <i>shall (476)</i> be UFAS compliant.	3 bedroom
70		2 bedroom
		1 bedroom
		Express unit
	21.0 Access System(Doors	
	Each exterior door <i>shall (477)</i> be an industry standard thirty-six by seventy-six	3 bedroom
	(36" x 76") minimum insulated fiberglass or steel door with a minimum R 3.5	2 bedroom
	rated insulation.	1 bedroom
OIS		Express unit
Do	Each door <i>shall (478)</i> be pre-hung and the bottom of the door's threshold <i>shall</i>	3 bedroom
0r	(479) be even with the adjacent floor and providing a weather-proof seal	2 bedroom
eri		1 bedroom
21.1 Exterior Doors		Express unit
=	Each entrance door <i>shall</i> (480) have passage locks and key operated dead bolt	3 bedroom
21	locks installed. All key operated dead bolt locks shall (481) use a dedicated key	2 bedroom
	that operates the front and rear Exterior Doors. All locks shall (482) be master	1 bedroom
	keyed.	

		Express unit		
	When facing the unit from the drawbar the front door <i>shall (483)</i> be on the left	3 bedroom		
	side and the rear door <i>shall</i> (484) be on the right side near the back. The doors	2 bedroom		
	shall (485) not be on the same side.	1 bedroom		
		Express unit		
	The doors shall (486) be mounted in such a manner that the hinged side is toward	3 bedroom		
	the front of the unit (toward the tongue). When fully opened (the maximum	2 bedroom		
	extent of the door swing), the door shall (487) not block or come in contact with	1 bedroom		
	any window			
		Express unit		
	TT 1 1 1/400\1 1 1 1	3 bedroom		
	The door <i>shall (488)</i> have lever handles.	2 bedroom		
		1 bedroom		
		Express unit		
	The door on the left side of the manufactured home <i>shall (489)</i> be designated as	3 bedroom		
	the front door. The front door <i>shall (490)</i> swing outward from the manufactured	2 bedroom 1 bedroom		
	designated as the rear door. The rear door <i>shall (492)</i> swing out-ward from the manufactured home			
	493 and 494 are reserved for future use	Express unit 3 bedroom		
	473 and 474 are reserved for future use	2 bedroom		
		1 bedroom		
		Express unit		
		3 bedroom		
	The manufactured home <i>shall (495)</i> not have any screen doors.	2 bedroom		
	The manufactured nome shall (175) not have any screen doors.	1 bedroom		
		Express unit		
	Each exterior door <i>shall (496)</i> have two (2) peephole / door viewers. The upper	3 bedroom		
or ole er	peephole shall (497) be located in the horizontal center of the door, and be placed	2 bedroom		
eric pho ew	five feet three inches (5'3", or 63") with a tolerance of (\pm .5 inch) from the	1 bedroom		
Ext Pee	finished floor. The lower peephole <i>shall (498)</i> be located in the horizontal center	1 ocaroom		
21.2 Exterior Door Peephole /Door Viewer	of the door, and be placed three feet seven inches (3'7", or 43") with a tolerance			
21. Do	of $(\pm .5 \text{ inch})$ from the finished floor.			
		Express unit		
ri S	All interior passage doors shall (499) be a minimum of thirty-two inches (32")	3 bedroom		
21.3 Interi or Doors	clear width when the door is open in a ninety degree (90°) position. The threshold	2 bedroom		
``	of the doorway should be even with the adjacent floor.	1 bedroom	 	

		Express unit
	No interior doors <i>shall (500)</i> be short (under) cut (reduced beyond the frame) for	3 bedroom
	any reason except to allow for the door to open and close, to include facilitating	
	air circulation.	2 bedroom
	an encuration.	1 bedroom
		Express unit
	Interior doors <i>shall (501)</i> have a floor to door clearance of between a half-inch	3 bedroom
	and a quarter-inch $(\frac{1}{2})^2 - \frac{3}{4}$.	2 bedroom
	and a quarter-men (/2 - /4).	
		1 bedroom
	A: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Express unit
	Air circulation <i>shall (502)</i> be accomplished by providing vents either in the door	3 bedroom
	or through the walls.	2 bedroom
		1 bedroom
		Express unit
	All interior doors <i>shall (503)</i> have lever handles	3 bedroom
		2 bedroom
		1 bedroom
		Express unit
	Door Stops <i>shall (504)</i> be ins doors to prevent doors from opening too far and	3 bedroom
		2 bedroom
	damaging nearby walls.	1 bedroom
		Express unit
	22.0 Windows	
S	The minimum window size <i>shall (505)</i> be approximately thirty inches by fifty-	3 bedroom
00	four inches (30" x 54") with a maximum U factor 0.36. The windows shall (506)	2 bedroom
l nd	be vinyl, low E glass, and double paned. All windows shall (507) have window	1 bedroom
	screens.	
SS		
gre		Express unit
<u> </u>	An exception to the minimum window size is that a thirty inch by twenty-seven	3 bedroom
l	inch (30" x 27") window may be used over the kitchen sink.	2 bedroom
S. S.		1 bedroom
<u> 0</u>	Windows used as egress windows shall (508) be listed and labeled for use as an	
inc	egress window with operating instructions affixed to each window	
▶		Express unit
22.1 Windows and Egress Windows	Screens <i>shall (509)</i> be held in place during transit with a removable, reusable,	3 bedroom
64	non-corrosive, shipping clip(s). Tape or other temporary securing methods <i>shall</i>	2 bedroom

	(510) not be utilized to secure screens.	1 bedroom		
		Express unit		
	At least one exterior door <i>shall (511)</i> have a clear opening width of no less than	3 bedroom		
	32 inches	2 bedroom		
		1 bedroom		
		Express unit		
	All windows <i>shall (512)</i> have mini-blinds installed. These mini-blinds <i>shall (513)</i>	3 bedroom		
ow ds	be designed to meet required industry safety standards and <i>Consumer Product</i>	2 bedroom		
nd ling	Safety Commission recommendations.	1 bedroom		
22.2 Window Blinds		Express unit		
	The contractor <i>shall (514)</i> provide a location (transponder sled) to mount a	3 bedroom		
	transponder which dimensions are, L: 7.25in x W: 3.25in x H: 1in (184mm x	2 bedroom		
	83mm x 25 mm) and weighs 13 ounces (369 g) (without mounting bracket) or 7.61 x 3.52 x 1.06in (192.42mm x 89.82mm x 26.9mm) with a mounting bracket.	1 bedroom		
ion	The transponder mounting (transponder sled) location <i>shall</i> (515) not impact the functionality and performance of the transponder, damage the MH and/or the			
22.3 Transponder location	transponder under any circumstance.			
nder	The transponder location <i>shall</i> (516) be accessible, easy to reach and <i>shall</i> (517) allow removing the transponder without any special tool/property tool (a tool			
odsu	designed or reserved for a particular purpose) without damaging the MH, the			
Tra	surface mounted, and/or the transponder.			
2.3	The transponder <i>shall (518)</i> be located as highest as possible with the top position			
~	of the transponder pointing to the sky (up position). There <i>shall</i> (519) not be any object obstructing the signal that is emitted and/or received from the satellites.			
		Eveness unit		
	23.0 UFAS Requirements	Express unit		
	All units designated as "UFAS" or "Accessible" shall (520) be fully compliant	3 bedroom		
	with applicable UFAS regulations and this document. UFAS "reminders"	2 bedroom		
, , , , , , , , , , , , , , , , , , ,	included throughout these requirements are used to highlight certain standards,	1 bedroom		
ner	but are not all-inclusive, and the contractor <i>shall (521)</i> be responsible for	1 bearoom		
General	ensuring compliance for applicable UFAS regulations. FEMA has provided			
	specific areas where past units designs have been lacking; however contractors			
	are responsible for UFAS products being fully compliant with applicable PARTS			

	of UFAS regulations.				
		Express unit			
0 4)	An Accessible route as specified in UFAS 4.3 <i>shall</i> (522) be provided within the	3 bedroom			
23.1 Accessib le Route	unit and <i>shall (523)</i> connect an accessible entrance with all accessible rooms,	2 bedroom			
23.1 scessi Rou	spaces, and accessible elements of the unit.	1 bedroom			
Ac le		Express unit			
	23.2 Additional Requirements for UFAS U		om		
	Cable television and telephone jacks <i>shall</i> (524) be in compliance with UFAS	3 bedroom			
Telepho ne and Cable televisio	4.27 for controls and operating mechanisms. The telephone jacks <i>shall</i> (525) have	2 bedroom			
e a ce a	unobstructed access and be located on the accessible route.	1 bedroom			
T n e		Express unit			
<u>.</u>	The living room <i>shall (526)</i> contain compliant turning space in accordance with	3 bedroom			
23.2.2 Living Room Furnitur	UFAS 4.2.3 and 4.3 when the furniture is set up and positioned for manufactured	2 bedroom			
23.2.2 Living Room urnitu	home occupancy.	1 bedroom			
		Express unit			
	23.3 Additional requirements for UFAS Unit :	Kitchen and D	inning		
·=	The dinette table <i>shall (527)</i> be movable on wheels or casters. The table in the	3 bedroom			
1 shi					
3.1 iish	UFAS manufactured home may be used as the UFAS accessible counter space in	2 bedroom			
23.3.1 urnish ng	UFAS manufactured home may be used as the UFAS accessible counter space in the kitchen and <i>shall</i> (528) comply with UFAS 4.32.	2 bedroom 1 bedroom			
23.3.1 Furnishi ng	· · · · · · · · · · · · · · · · · · ·	1 bedroom			
	· · · · · · · · · · · · · · · · · · ·				
	the kitchen and <i>shall (528)</i> comply with UFAS 4.32.	1 bedroom Express unit			
	the kitchen and <i>shall (528)</i> comply with UFAS 4.32. Cabinets <i>shall (529)</i> comply with UFAS 4.1, 4.34, and UFAS 4.25. All cabinet	1 bedroom Express unit 3 bedroom			
ret 12	the kitchen and <i>shall (528)</i> comply with UFAS 4.32. Cabinets <i>shall (529)</i> comply with UFAS 4.1, 4.34, and UFAS 4.25. All cabinet	1 bedroom Express unit 3 bedroom 2 bedroom			
23.3.2 Cabinet ry	the kitchen and <i>shall</i> (528) comply with UFAS 4.32. Cabinets <i>shall</i> (529) comply with UFAS 4.1, 4.34, and UFAS 4.25. All cabinet doors and drawers <i>shall</i> (530) be compliant with 4.27. Countertops <i>shall</i> (531) comply with UFAS 4.32 and UFAS 4.34.6.	1 bedroom Express unit 3 bedroom 2 bedroom 1 bedroom			
23.3.2 Cabinet ry	the kitchen and <i>shall</i> (528) comply with UFAS 4.32. Cabinets <i>shall</i> (529) comply with UFAS 4.1, 4.34, and UFAS 4.25. All cabinet doors and drawers <i>shall</i> (530) be compliant with 4.27. Countertops <i>shall</i> (531) comply with UFAS 4.32 and UFAS 4.34.6. Switches and electrical receptacles or other controls on walls over kitchen	1 bedroom Express unit 3 bedroom 2 bedroom 1 bedroom Express unit			
23.3.2 Cabinet ry	the kitchen and <i>shall</i> (528) comply with UFAS 4.32. Cabinets <i>shall</i> (529) comply with UFAS 4.1, 4.34, and UFAS 4.25. All cabinet doors and drawers <i>shall</i> (530) be compliant with 4.27. Countertops <i>shall</i> (531) comply with UFAS 4.32 and UFAS 4.34.6. Switches and electrical receptacles or other controls on walls over kitchen counters <i>shall</i> (532) be within the reach ranges specified in UFAS 4.2.6 for an	1 bedroom Express unit 3 bedroom 2 bedroom 1 bedroom Express unit 3 bedroom			
23.3.2 Cabinet ry	the kitchen and <i>shall</i> (528) comply with UFAS 4.32. Cabinets <i>shall</i> (529) comply with UFAS 4.1, 4.34, and UFAS 4.25. All cabinet doors and drawers <i>shall</i> (530) be compliant with 4.27. Countertops <i>shall</i> (531) comply with UFAS 4.32 and UFAS 4.34.6. Switches and electrical receptacles or other controls on walls over kitchen	1 bedroom Express unit 3 bedroom 2 bedroom 1 bedroom Express unit 3 bedroom 2 bedroom			
23.3.2 Cabinet ry	the kitchen and <i>shall</i> (528) comply with UFAS 4.32. Cabinets <i>shall</i> (529) comply with UFAS 4.1, 4.34, and UFAS 4.25. All cabinet doors and drawers <i>shall</i> (530) be compliant with 4.27. Countertops <i>shall</i> (531) comply with UFAS 4.32 and UFAS 4.34.6. Switches and electrical receptacles or other controls on walls over kitchen counters <i>shall</i> (532) be within the reach ranges specified in UFAS 4.2.6 for an	1 bedroom Express unit 3 bedroom 2 bedroom 1 bedroom Express unit 3 bedroom 2 bedroom 1 bedroom			
23.3.2 Cabinet ps ry	the kitchen and <i>shall</i> (528) comply with UFAS 4.32. Cabinets <i>shall</i> (529) comply with UFAS 4.1, 4.34, and UFAS 4.25. All cabinet doors and drawers <i>shall</i> (530) be compliant with 4.27. Countertops <i>shall</i> (531) comply with UFAS 4.32 and UFAS 4.34.6. Switches and electrical receptacles or other controls on walls over kitchen counters <i>shall</i> (532) be within the reach ranges specified in UFAS 4.2.6 for an obstructed reach.	1 bedroom Express unit 3 bedroom 2 bedroom Express unit 3 bedroom Express unit 3 bedroom 1 bedroom Express unit			
23.3.3 23.3.2 Kitchen Cabinet Counter Tops ry	the kitchen and <i>shall</i> (528) comply with UFAS 4.32. Cabinets <i>shall</i> (529) comply with UFAS 4.1, 4.34, and UFAS 4.25. All cabinet doors and drawers <i>shall</i> (530) be compliant with 4.27. Countertops <i>shall</i> (531) comply with UFAS 4.32 and UFAS 4.34.6. Switches and electrical receptacles or other controls on walls over kitchen counters <i>shall</i> (532) be within the reach ranges specified in UFAS 4.2.6 for an	1 bedroom Express unit 3 bedroom 2 bedroom 1 bedroom Express unit 3 bedroom 2 bedroom 1 bedroom Express unit 3 bedroom			
23.3.3 23.3.2 Kitchen Cabinet Counter Tops ry	the kitchen and <i>shall</i> (528) comply with UFAS 4.32. Cabinets <i>shall</i> (529) comply with UFAS 4.1, 4.34, and UFAS 4.25. All cabinet doors and drawers <i>shall</i> (530) be compliant with 4.27. Countertops <i>shall</i> (531) comply with UFAS 4.32 and UFAS 4.34.6. Switches and electrical receptacles or other controls on walls over kitchen counters <i>shall</i> (532) be within the reach ranges specified in UFAS 4.2.6 for an obstructed reach.	1 bedroom Express unit 3 bedroom 2 bedroom 1 bedroom Express unit 3 bedroom 2 bedroom 1 bedroom Express unit 3 bedroom 2 bedroom Express unit 3 bedroom 2 bedroom			
23.3.2 Cabinet ry	the kitchen and <i>shall</i> (528) comply with UFAS 4.32. Cabinets <i>shall</i> (529) comply with UFAS 4.1, 4.34, and UFAS 4.25. All cabinet doors and drawers <i>shall</i> (530) be compliant with 4.27. Countertops <i>shall</i> (531) comply with UFAS 4.32 and UFAS 4.34.6. Switches and electrical receptacles or other controls on walls over kitchen counters <i>shall</i> (532) be within the reach ranges specified in UFAS 4.2.6 for an obstructed reach.	1 bedroom Express unit 3 bedroom 2 bedroom 1 bedroom Express unit 3 bedroom 2 bedroom 1 bedroom Express unit 3 bedroom			

s _s	Each kitchen appliance <i>shall (534)</i> have a clear floor space for a forward or	3 bedroom		
23.3.4 Appliances	parallel approach complying with UFAS 4.34.6.2.	2 bedroom		
lia		1 bedroom		
dd	Appliance controls <i>shall (535)</i> be in compliance with UFAS 4.34.6.3 and UFAS			
4 A	4.27			
3,		Express unit		
73				
	Locate controls for range burners and oven to avoid reaching across burners. The	3 bedroom		
3.6 nge, en	range/oven shall (536) be in compliance with UFAS 4.34.6.6 and UFAS 4.34.6.3	2 bedroom		
23.3.6 Range/ Oven		1 bedroom		
		Express unit		
. =	Power vent shall (537) have a switch to operate vent in compliance with UFAS	3 bedroom		
23.3.7 Power Vented Hood	4.27.	2 bedroom		
23. Pov Ver Ho		1 bedroom		
		Express unit		
. i	The refrigerator <i>shall (538)</i> be in compliance with UFAS 4.34.6.8.	3 bedroom		
23.3.8 Refriger ator		2 bedroom		
23. Refi		1 bedroom		
<u> </u>		Express unit		
_ ≽ _	Each unit shall (539) have a minimum 1.2 c.f. microwave with child lock unless	3 bedroom 2 bedroom		
23.3.9 Microw ave Oven	this requirement is met through the use of a combination microwave / hood / fan /			
23, Mic	light and be UFAS compliant.	1 bedroom		
		Express unit		
er er	A clear floor space in compliance with 4.34.6.2 <i>shall (540)</i> be provided at the	3 bedroom		
23.3.10 Washer and Dryer	washer/dryer location. Where a washer and dryer are provided as part of the unit	2 bedroom		
23.3. Wash and Dry	they shall (541) comply with UFAS 4.34.7. and UFAS 4.27.	1 bedroom		
		Express unit		
23.3.11 Turning Space	The kitchen/dining room <i>shall (542)</i> contain a turning space complying with	3 bedroom		
23.3.11 Furning Space	UFAS 4.2.3.	2 bedroom		
23.		1 bedroom		
		Express unit		
e e	Cable television and telephone jacks <i>shall (543)</i> be in compliance with UFAS	3 bedroom		
127 non ably sion	4.27 for controls and operating mechanisms. The telephone jacks <i>shall</i> (544) have unobstructed access and be located on the accessible route. The cable outlet <i>shall</i>	2 bedroom		
23.3.12 elephor nd Cabl elevisio Outlets	(545) have unobstructed access and be located on the accessible route.	1 bedroom		
23.3.12 Telephone and Cable Television Outlets	1373) have anoustructed access and be focated on the accessible foute.			
		Express unit		
	23.4 Additional requirements for UFAS U			
	25. Fraudicinal requirements for CF 115 C	Jan		

	UFAS-In the bedroom/s:	3 bedroom
50	• One of the short sides of the bed <i>shall (546)</i> be designated as the head of	2 bedroom
23.4.1 Furnishing	the bed and that short side <i>shall (547)</i> be placed against a wall	1 bedroom
nis	• Of the three remaining sides two <i>shall (548)</i> have a minimum of twelve	
-gr	inches (12") between the bed and the nearest wall	
17	The final side of the bed (one of the long edges) shall (549) have open access of	
3.4	thirty-six inches (36") from the nearest wall	
64		
		Express unit
2 S	UFAS -Closets <i>shall (550)</i> be on an accessible route and <i>shall (551)</i> be in	3 bedroom
23.4.2 Closets	compliance with UFAS 4.34.2(8) and 4.25.	2 bedroom
23.4.2 Closets		1 bedroom
		Express unit
L ts	UFAS – Cable television and telephone jacks <i>shall</i> (552) be in compliance with	3 bedroom
and	UFAS 4.27 for controls and operating mechanisms.	2 bedroom
ne 2		1 bedroom
hoi ion	The telephone jacks <i>shall</i> (553) have unobstructed access and be located on the accessible route.	
lep.	accessiole foute.	
23.4.3 Telephone and Cable Television outlets	The cable outlet <i>shall</i> (554) I have unobstructed access and be located on the	
t.3 e T	accessible route.	
23. ²	decessible foute.	
ر ب		Express unit
a.a	The bedrooms <i>shall (555)</i> contain a turning space complying with UFAS 4.2.3.	3 bedroom
23.4.4 Turning Space		2 bedroom
23.4 urn Spa		1 bedroom
`` E 32		Express unit
	23.5 Additional Requirements for UFAS	Unit: Bathroom
	UFAS units shall (556) be equipped with; an accessible bathtub, a 36" x 36"	3 bedroom
qn	transfer shower, or a roll in shower (30" x 60" minimum), with no threshold or	2 bedroom
	curve. The contractor <i>shall (557)</i> install a shower / bathtub combination	1 bedroom
nn d	complying with UFAS 4.20 bathtubs; or a shower stall complying with UFAS	
er 8	4.21	
)MO		Express unit
Sho	Grab bar shall (558) be provided and shall (559) comply with either 4.20.4 where	3 bedroom
1.3	bathtubs are provided or with 4.21.4 where showers are provided.	2 bedroom
23.5.1 Shower and Tub		1 bedroom
7		Express unit
		Express unit

	The contractor <i>shall (560)</i> insure that the UFAS shower does not allow water to	3 bedroom		
	flow out from the base if a roll in shower is used properly. This may include the $\boxed{2}$			
	use of a compressible rubberized "bumper" to act as a water dam. The "bumper"	1 bedroom		
	shall (561) comply with UFAS 4.5.2 when compressed.			
		Express unit		
	The shower <i>shall</i> (562) be installed in accordance with the shower	3 bedroom		
	manufacturer's instructions.	2 bedroom		
		1 bedroom		
		Express unit		
	The manufactured home <i>shall (563)</i> include a curtain rod.	3 bedroom		
		2 bedroom		
		1 bedroom		
		Express unit		
., 9	The water closet (toilet) shall (564) comply with UFAS 4.34.5.2.	3 bedroom		
3.5.2 mm de		2 bedroom		
23.5.2 Commo de		1 bedroom		
		Express unit		
).	The vanity counter and lavatory <i>shall (565)</i> comply with UFAS 4.19. Lavatories,	3 bedroom 2 bedroom		
23.5.3 Bathroo m Lavator v				
23 3at		1 bedroom		
		Express unit		
et ht d	At least one shelf of the medicine cabinet <i>shall (567)</i> comply with UFAS 4.25.	3 bedroom		
oin ig an ess	The toilet paper dispenser <i>shall</i> (568) comply with 4.34.5.2(4).	2 bedroom		
Cabinet ry/Light ing and Accessor		1 bedroom		
i A		Express unit		
sib VS	The bathroom <i>shall (569)</i> contain a turning space complying with UFAS 4.2.3.	3 bedroom		
23.5.5 Accessib le/UFAS Unit	Plumbing controls, including faucet assemblies and shower spray units <i>shall</i>	2 bedroom		
23 \cc e/U	(570) comply with relevant provisions of UFAS 4.16 to 4.24 and 4.27.	1 bedroom		
/ I		Express unit		
	23.6 Additional Requirements for UFAS			
2 _	All hallways <i>shall (571)</i> be a minimum of thirty-six inches (36") wide. All	3 bedroom		
FA ay und r	hallways <i>shall (572)</i> be UFAS compliant and all interior doors <i>shall (573)</i>	2 bedroom		
fallwa dth ar Door	provide a thirty-two inches (32") clear opening and comply with UFAS 4.13. The	1 bedroom		
23.6.1 UFAS Hallway width and Door	door maneuvering clearances requirements in UFAS 4.13.6 may require hallways			
23 	to be wider than 36 inches at some doorways.	Express unit		
	22.71 A Jalidiana I Danning and A. C. LITTA C.	<u> </u>		
	23.7 Additional Requirements for UFAS	unit: Electrical		

	All light switches <i>shall</i> (574) be compliant with UFAS 4.27. Where receptacles	3 bedroom
lg lg	or switches are above obstructions, including countertops, they <i>shall</i> (575) be	2 bedroom
23.7.1 Interior Lighting	located a maximum of forty-four inches (44") above the finished floor and <i>shall</i>	1 bedroom
23 Intelligi	(576) meet the requirements for an obstructed side reach in UFAS 4.2.6.	1 bourson
""	*	Express unit
	23.8 Additional requirements for UFAS	
70	Plumbing controls, including faucet assemblies and shower spray units <i>shall</i>	3 bedroom
g Controls and Faucet	(577) comply with relevant provisions of UFAS 4.16 to 4.24 and 4.27.	2 bedroom
g ontro and auce	•	1 bedroom
S E		Express unit
	23.9 Additional Requirement's for UFAS unit	
=	All controls <i>shall (578)</i> comply with UFAS 4.1 and UFAS 4.27. Switches and	3 bedroom
23.9.1 Controls and Operating Mechanisms	electrical receptacles or other controls on walls over kitchen counters <i>shall</i> (579)	2 bedroom
23.9.1 Controls and Operating Aechanisms	be within the reach ranges specified in UFAS 4.2.6 for an obstructed reach.	1 bedroom
23.9 tro oer:	Controls include but are not limited to: cable television and telephone jacks,	
	electrical receptacles, thermostats, and light and fan switches.	
		Express unit
	23.10. Additional Requirements for UFAS unit: 1	9
н. п	Floor surfaces <i>shall</i> (580) meet UFAS 4.5. The mat provided at each entrance	3 bedroom
.10. loor veri gs	shall (581) comply with UFAS 4.5.3.	2 bedroom
23.10.1 Floor Coverin gs		1 bedroom
•••		Express unit
	23.11 Additional Requirements for UFAS unit: F	
1	All receptacles shall (582) meet UFAS requirements	3 bedroom
3.11. Iteric ecept		2 bedroom
23.11.1 Interior Recepta cles		1 bedroom
		Express unit
	23.12 Additional Requirements for UFAS unit	it : Safety Equipment
_ :	A fire extinguisher mounted on the wall <i>shall</i> (583) not protrude more than 4"	3 bedroom
23.12.1 Fire Extingui	from the wall surface if the bottom is more than 27 inches the floor. The top of	2 bedroom
33.1 E. E. E. E. Sh	the fire extinguisher <i>shall</i> (584) be at a maximum of 48 inches above the floor.	1 bedroom
<u> </u>		Express unit
	23.13 Additional Requirements for UFAS unit: 1	NOAA Weather Radios
1 V er S	ALL NOAA weather radios <i>shall (585)</i> be compliant with UFAS 4.1 and UFAS	3 bedroom
23.13.1 NOAA Weather Radios	4.28	2 bedroom
3. 3. 3. 3. 3. 3. 3. 3.		1 bedroom

	23.14 Additional Requirements for UFAS unit:	Access System	Doors		
	The interior doors shall (586) comply with UFAS 4.13. Interior doors shall (587)	3 bedroom			
'n	have lever hardware that allows to be operable with only one hand and shall	2 bedroom			
o o	(588) not require tight gasping, pinching, or twisting of the wrist and shall (589)	1 bedroom			
ے ن	comply with UFAS 4.27				
jo					
23.14.1 Interior Doors		Express unit			
=====================================	Where pocket doors are provided in accessible units, the lever hardware on both	3 bedroom			
14.	sides of door shall (590) extend two inches (2") from door surface, shall (591)	2 bedroom			
3.	have one and one-half inch (1.5") clearance on each side of handle, and shall	1 bedroom			
	(592) be compliant with UFAS 4.34, UFAS 4.27 and UFAS 4.13.				
		Express unit			
	24.0 Manufactured Home Ko			1	
	The contractor <i>shall (593)</i> furnish three (3) sets of keys for homes procured. Keys	3 bedroom			
	shall (594) be secured on a rust-proof ring or wire. The unit keys shall (595) have	2 bedroom			
	an identification tag with the manufactured home serial / VIN number on one side	1 bedroom			
(ey	and space for the bar code on the other side.				
24.1 Unit Key		Express unit			
	The contractor <i>shall (596)</i> furnish three (3) sets of keys for each lock, if different,	3 bedroom			
<u> </u>	for each manufactured home procured. Keys shall (597) be secured on a rust-	2 bedroom			
2	proof ring or wire. The unit keys <i>shall (598)</i> have an identification tag with the	1 bedroom			
	manufactured home serial / VIN number on one side and space for the bar code	1 0 0 0 1 0 0 1 1 1			
	on the other side.				
		Express unit			
,	Manufacturer shall (599) secure the compartment door utilizing a "SCHLAGE"	3 bedroom			
24.2 Water Heater Compartment Standard Key	brand 6-pin Everest cylinders in C123 keyway (dead bolt lock), that shall (600)	2 bedroom			
24.2 Water Heater Ompartmer	be keyed to a 6 pin combination. The key combination <i>shall (601)</i> be 746105.	1 bedroom			
2 V Fea pan					
24.7 E om	This key combination <i>shall</i> (602) not be used anywhere else in the manufactured				
), S	home or in the master key set.	Express unit			
	Master keys <i>shall (603)</i> be provided and packaged separately from unit keys. The	3 bedroom			
24.3 Master Keys	master keys shall (604) have an identification tag stating the serial number range	2 bedroom			
24.3 Master Keys	that the key works on.	1 bedroom			
		Express unit			
	25.0 Testing Requirements				
<u> </u>	The following additional tests <i>shall (605)</i> be required prior to delivery and may	3 bedroom			
	g and the first that the first terms of the first t				

	be witnessed at the discretion of	the Governmer	ıt.	2 bedroom		
	The drainage and vent system and the plumbing fixtures					
	The electrical system					
	HVAC system					
	Documentation explaining mold resistance measures taken					
	•					
		Express unit				
	Water piping shall (606) be teste	3 bedroom				
			EMA the entire water system <i>shall</i>			
	(607) be dry without any water in	n it or with usin	g adequate amounts of RV	1 bedroom		
	Antifreeze as a precautionary me					
	conditions. The Contractor shall					
	antifreeze and provide instruction		in-winterize" the unit to be used			
	safely to house disaster survivors	3				
				Express unit		
				Express unit		
			26.0 Labels and Unit Identifi	cation		
	All units shall (608) have a unit	All units <i>shall</i> (608) have a unit designation number as described below. The				
	"FEMA Designated Number" is composed from information provided by FEMA and by the manufacturer, which uniquely identifies the unit.			2 bedroom		
				1 bedroom		
er	TT 1 1 1 (600) 1 6.1	1		Express unit		
qu	The number shall (609) be as fol	lows:		3 bedroom		
N E	Descriptor	Source	Example	2 bedroom		
[pa	Last two digits from the year	FEMA	14	1 bedroom		
nato	the contract was awarded	LIVIA	14			
26.1 Unit Designated Number	Last four digits from	FEMA	1000			
De	contracted firm's contract					
nit	number					
i i	Four character abbreviation	FEMA	ABCD			
6.1	assigned to contracted firm					
7	Hyphen	T				
	Last two digits from the year	FEMA	13			
	the task order was awarded	EED (A	0.1			
	Last two digits from	FEMA	01			
<u> </u>	contracted firm's task order	1				

	number						
	Unique code assigned to	FEMA	BA				
	requirement version						
	Quantity of bedrooms	Manufacturer	2				
	UFAS Type (U = UFAS, N = Non-UFAS)	Manufacturer	U				
	Hyphen						
	Incremental number assigned to each MHU produced under task order	Manufacturer	0056				
	Alpha letters assigned if options are exercised (e.g., S = sprinkler and/or W = shrink wrapped)	Manufacturer	SW				
	Example: 141000ABCD-1301AA	A2U-0056SW					
					Express unit		
	All units <i>shall</i> (610) be identified	in accordance to	the following:		3 bedroom		
					2 bedroom		
ification	UNIT NUMBER PLACARD Unit number placard shall (611) unit, when facing the unit (tongue The Unit Number placard shall Include FEMA Unit Desi Marking must be of a pla	e side). (612) be as following the side). It is a side).	ws:		1 bedroom		
Identi	 Marking must be of a plain font (e.g. Arial); three inches (3") high; black colored on white background; and must be reflective ASTM D4956 Type III or better 						
26.2 Unit Identification	Placement must be within adjacent roof eve and no the manufactured home						
					Express unit		
	UNIT CONTACT PLACARD				3 bedroom		
	Unit Contact placard shall (613)				2 bedroom		
	exterior doors, adjacent to upper	peephole (top of t	the sign may not be a	ny higher	1 bedroom		

	d floor), door hand	le side.				
 The Unit Number placard Destructible Vinyl and plum with resp Black one inch (1" "FEMA Owned & Contact FEMA at 8 The above line mus "(3362)" Blue three-quarters approximately eigh marker) FEMA Bar 	Sticker type (stick pect to the door edge) high font, on wh Maintained Unit 800-621-FEMA" at be suffixed with sinch (3/4") high fout inches (8") of sp	ser must be app ge) ite background one-half inch (ont, stating "Uni	(½") font stating, it Barcode"; and			
				Express unit		
UNIT SPEC PLACARD				3 bedroom		
Unit Contact placard shall	(615) be placed or	n Interior side o	f the water heater	2 bedroom		
closet door, level, three inc						
 The Unit Data placard shal White background, "UNIT SPECS" in Placard must list the information black one-quarter inch (1/4") 	, dark blue border, uppercase, blue h nation correspondi	half inch ($\frac{1}{2}$) i alf inch ($\frac{1}{2}$ ") hi	igh font, centered			
	(26 characters)					
Unit Number						
Manufacturer's Serial	(40 characters)					
Number						
Number	(40 characters)					
Number Contracted Manufacturer's Name	(40 characters)					
Number Contracted Manufacturer's Name Actual Manufacturer's Name		racters)				
Number Contracted Manufacturer's Name Actual Manufacturer's Name Actual Manufacturer's	(40 characters)	,				
Number Contracted Manufacturer's Name Actual Manufacturer's Name Actual Manufacturer's Address Actual	(40 characters) Address1 (40 cha Address2 (40 cha	,	MM-DD-YY (8 characters)			

	FEMA Requirement	(3 characters)	FEMA	(10				
	Code		Climate /	characters)				
			Color					
	Length (feet)	(6 characters)	Width (feet)	(4 characters)				
	Height (feet)	(4 characters)	Fully loaded Weight (lbs)	(6 characters)				
	UFAS	Yes / No (3 character)	Number of Axles/Tires	(4 characters)				
	Tire type/ recommended psi for transport	(10 characters)	Axle rating, each (weight in lbs)	(5 characters)				
	Thermal (U/O) Zone	(1 character)	Livable area (Square feet)	(3 characters)				
	Wind Zone	(1 character)	Roof Load Zone	(2 characters)				
	Electrical System (amps / volts)	(7 characters)	Electrical Supply (# wires / # avg)	(3 characters)				
	Water Heater Size (gallons)	(2 characters)	Water Heater Manufacturer	(40 characters)				
	HVAC Manufacturer	(40 characters)	HVAC Size (rated tons)	(3 characters)				
	HVAC Heat Strip Size (amps)	(3 characters)	Other 1	(40 characters)				
	Siding Manufacturer	(40 characters)	Siding Color	(10 characters)				
	Exterior Doors (rating / size)	(10 characters)	Windows (U factor)	(2 characters)				
	# of Bedrooms	(1 character)	# of Bathrooms	(1 character)				
					Express uni	į		
	The UNIT SPEC PLACA				3 bedroom			
20.3 Unit Barcode	information as specified a UNIT SPEC PLACARD.		Barcodes shall (619) be part of the	2 bedroom 1 bedroom			
26.3 Bai	MFG SERIAL NUMBER		TEMA DESIGNAT TUMBER	TED UNIT				

ab123 (code 39) INFORMATION FROM UNIT DATA PLACARD	ab123 (code 39) INFORMATION FROM UNIT DATA PLACARD			
(PDF-417)	(Datamatrix)			
		Express unit		
BARCODE INFORMATION		3 bedroom		
Manufacturer Serial Number		2 bedroom		
This CODE 39 type barcode shall		1 bedroom		
	signed, and it shall (621) match the serial			
	other areas of the Manufactured Unit. The			
barcode <i>shall (622)</i> be only alpha				
FEMA Designated Unit Number				
¥ ±	<i>l</i> (623) be encoded with the FEMA			
	ined above). The number shall (624)			
	Unit Data Placard. The barcode <i>shall</i>			
(625) have be only alphanumeric				
 Information from Unit Spec Plan 				
	(626) be encoded with comma delimited			
	Placard. Symbols (dashes and back			
	has in data fields may be used (e.g.			
	ne data shall (627) be encoded in the order			
	labels – will be included. Blank fields are			
included, but can be blank (denot	•			
Information from Unit Spec Plan				
	all (628) be encoded with comma			
	Init Data Placard. Symbols (dashes and			
	commas in data fields may be used (e.g.			
· · · · · · · · · · · · · · · · · · ·	ne data shall (629) be encoded in the order			
listed below. Data only – no data	labels – will be included. Blank fields are			

		included, but can be blank (denoted with just a comma).			1	
		Comma delimited order				
		FEMA Designated Unit Number, Manufacturer's Serial Number, Contracted				
		Manufacturer's Name, Actual Manufacturer's Name, Actual Manufacturer's				
		Address1, Actual Manufacturer's Address2, Actual Manufacturer's Phone,				
		Actual Manufacture Date, FEMA Requirement Code, FEMA Climate / Color,				
		Length, Width, Height, Fully Loaded Weight, UFAS, # of Axles / Tires, Tire				
		Type / Recommend PSI for Transport, Axle Rating Each, Thermal Zone, Livable				
		Area, Wind Zone, Roof Load Zone, Electric System, Electric Supply, Water				
		Heater Size, Water Heater Manufacturer, HVAC Manufacturer, HVAC Size,				
		HVAC Heat Strip Size, Other 1, Siding Manufacturer, Siding Color, Exterior				
		Doors, Windows, # of Bedrooms, # of Bathrooms				
		Boots, whitews, if of Bedrooms, if of Bullicoms	Express unit			
	4)	Contractor <i>shall (630)</i> stencil in a contrasting color two inch (2") high font the	3 bedroom			
	Manufacture d Home Serial	many factorized a government of the temporal The stancial of all (621) has pointed in	2 bedroom			
4	anufactu d Home Serial	such a location that it will not obscure the stamped serial number. The serial	1 bedroom			
26.4	infiguration of the second	number stenciled <i>shall</i> (632) match the stamped serial number and serial number	1 bearoom			
		on the HUD data plate.				
	2		Express unit			
		Contractor shall (633) affix a permanent indicator to identify the following:	3 bedroom			
	26.5 Labels	 Support Placement Location (piers, jack stands, etc.) for long 				
	26. ab	term storage,				
	_	 Blocking Location for Installation, 				
		 Fresh Water Inlet Location 	2 bedroom			
			1 bedroom			
-			Express unit			
		The Jack stand label shall (634) include the minimum quantity of jacks required	Express and			
		per I- Beam . Also, it shall (635) indicate how many jacks are needed to change				
		the tire.				
		The Contractor shall (636) affix labels if the unit is winterized using RV				
		antifreeze. The Contractor <i>shall</i> (637) provide instructions on how to "dewinterize" the unit to be used, safely to house disaster survivors				
		MHU Task Order Options O1 Shrink Wrap				
		Contractor <i>shall</i> (O1.1) provide a Shrink wrap, A Shrink wrap is a low density	3 bedroom			
	O1.1 Shrink Wrap	polyethylene film made from fractional melt resin and other additives. Shrink	2 bedroom			
	O1. hri	wrapping the manufactured homes will mitigate against wear and tear during	1 bedroom			
	2 2 ×	transport and storage. The shrink wrap <i>shall be</i> completed prior shipping the unit.	1 Deartonii			
		The state of the s	l	l	I	l .

	If an MH is shrink wrapped, the damage caused, by the shrink wrap to the unit, does not have to be covered by the contractors warranty.				
		Express unit			
	The Shrink warp material <i>shall</i> (O1.2) meet the following:	3 bedroom			
	Industry Standards	2 bedroom			
	• ASTM D4397-91	1 bedroom			
	• ASTM D4635-91 Type 1, 2 & 3; Surface 2; Finish 1				
ion	Government Standards				
ipt.	• Federal Specification LP-378** Type 1 & 2; Class 1; Grade B; Finish 1				
SCI	• Federal Specification LP-390 Type 1; class L; Grade 1 or 2; Category 4				
l De	• Federal Specification LP-512 Type 1; Class L; Grade 1 or 2				
01.2 Material Description	Material Performance				
T at	• 100% virgin resin material with extremely consistent mil thickness and				
2 N	opacity				
)1.	Ultraviolent Inhibitors to ensure two (2) year protection against UV				
	• EVA (ethyl vinyl acetate) content should ensure a two (2) year durability				
	protection				
	Minimize heat collection in warm southern climates				
	Ideally Meets NFPA 701				
		Express unit			
	Shrink wrap <i>shal(O1.3)</i> cover the unit and form a complete seal from the roof to	3 bedroom			
age	the bottom frame of the unit. The bottom of the unit should not be wrapped.	2 bedroom			
01.3		1 bedroom			
O1.3 Coverage		Express unit			
	Shrink wrap application <i>shall (O1.4)</i> not damage units. Any part of the unit that	3 bedroom	_		
lity	might be damaged by the pressure of shrink wrap <i>shall</i> (O1.5) be appropriately	2 bedroom			
abi	protected by disposable padding, framing, or reinforcement. Units <i>shall</i> (01.6)	1 bedroom			
ļ ir	not be damaged by the application of the wrap, protection padding, or framing for				
-	the shrink wrap.	Express unit			
O1.4 Durability	Shrink wrap <i>shall (O1.7)</i> be of sufficient thickness to mitigate typical transport	3 bedroom			
	and storage hazards. This includes but is not limited to damage to shingles caused	2 bedroom			
	and storage mazards. This includes out is not initied to damage to similares caused	∠ ucui uuiii			

	by winds during transport, small road debris chipping or scarring the exterior of the unit, and water intrusion that occurs from prolonged unprotected exposure to the elements.	1 bedroom		
		Express unit		
	The contractor shall (O1.8) insure that there is sufficient banding so that the	3 bedroom		
<u></u>	shrink wrap is able to sustained multiple trips and up to two (2) years in storage.	2 bedroom		
din		1 bedroom		
an		Express unit		
2 B	The banding <i>shall</i> $(O1.9)$ be a minimum of the standard three-quarters inch $(\sqrt[3]{4})$	3 bedroom		
01.5 Banding	coated nylon / fabric product.	2 bedroom		
		1 bedroom		
		Express unit		
	In the absence of independent documentation to demonstrate appropriate	3 bedroom		
	ventilation, ventilation shall (O1.10) be provided to minimize microbial growth.	2 bedroom		
.	The manufacturer <i>shall</i> (O1.11) include either solar ventilation or wind vent fans.	1 bedroom		
tio				
01.6 Ventilation	Fans should be placed in front of two (2) windows on opposite sides (long side) of the units.			
Λ 9	Passive Ventilation	Express unit		
)1.	The manufacturer <i>shall</i> $(O1.12)$ include two (2) passive vents on each long side	Empress and		
	of the unit and one (1) passive vent on short side. All passive vents should be			
	placed below any proud object (e.g. HVAC). Vents should be place no higher			
	than eight feet (8') above ground.			
	To allow a full size person the ability to enter and exit the unit, a standard full	3 bedroom		
s,	size zipper door shall (O1.13) be provided. To maximize the ease of entry and	2 bedroom		
200	exit, the shrink wrap door will be installed so that when the shrink wrap door is	1 bedroom		
Ą	opened the door will drop to the ground.			
, ss				
O1.7 Access "Doors"		Express unit		
/ A	The shrink wrap "door" shall (O1.14) be placed immediately in front of the	3 bedroom		
1.7	manufactured home front door so that access to the manufactured home is not	2 bedroom		
0	impaired.	1 bedroom		
		Express unit		
n f o	To maximize longevity, all shrink wrap welds shall (O1.15) be reinforced with	3 bedroom		

	shrink wrap tape. Any holes in the wrap <i>shall (O1.16)</i> be patched with shrink	2 bedroom		
	wrap tape. Any large shrink wrap patch <i>shall</i> (O1.17) be reinforced on the exterior and interior side of the wrap with shrink wrap tape	1 bedroom		
	The second secon	Express unit		
	The front of the manufactured home unit (tongue side) shall (01.18) have	3 bedroom		
	maximum reinforcements to mitigate wind and road damage during transport.	2 bedroom		
		1 bedroom		
		Express unit		
8	The shrink wrap shall (O1.19) have marking identifiers as follows within six	3 bedroom		
01.9 Marking	inches (6") laterally from the actual location:	2 bedroom		
lar	Electrical service connection	1 bedroom		
\leq	Water service connection			
1.5	Sewer connection			
<u> </u>		Express unit		
	To maximize identification, the exterior of the shrink wrap <i>shall</i> (01.20) have the	3 bedroom		
	manufactured home identification information printed in black Three inch (3")	2 bedroom		
	high font, on white background; located on left front corner (facing tongue, left	1 bedroom		
	side); approximately two feet (2') from bottom of roof line.			
	The information displayed <i>shall (O1.21)</i> include:			
	• Contracted Firm's Name			
	 Manufacturer's Serial # of the Unit have to match the manufactured home) 			
	FEMA's unit identification number			
ц	Manufacturer (production facility) and Date of Manufacture			
atio	Quantity of bedrooms (formatted to say "Bedrooms=" and number of			
lic:	bedrooms)			
nti	UFAS status (formatted to say "UFAS=" and status)			
[de	 Sprinkler Status (stated only if unit has sprinkler, and formatted to say 			
O1.10 Identification	"Sprinkler=" and status)			
11.	Color of Siding (formatted to say "Color=" and color)			
	Manufacturer's Model Number (formatted to say "Mfg Model=" and			
	manufacturer model #)			
	Unit requirements			
	 Size information (formatted to say "ground height=" and 			
	"maximum width=" and "maximum length=")			
	 Gross weight (with furniture, formatted to say "Weight=" and actual weight) 			
	FEMA Barcode (with space for FEMA to write in the number)			
		Express unit		

	Manufacturer shall (O1.22) provide three (3) reusable bags for the return and	3 bedroom		
	recycling of shrink wrap to a qualified and reliable recycler (to recycle the shrink	2 bedroom		
gu	wrapping).	1 bedroom		
O1.11 Recycling		Express unit		
Sec.	The reusable bags <i>shall</i> (O1.23) be able to be shipped by common carrier. At a	3 bedroom		
11	minimum, the bag <i>shall</i> have postage and address ready for easy shipment. In	2 bedroom		
1.1	larger operations, the manufacturer may decide to collect the reusable bags (with	1 bedroom		
0	shrink wrap) and transport them to the recycler as a lot.			
	02. WLl C4	Express unit		
	When FEMA orders manufactured homes, the Agency may require that the	3 bedroom		
	contractor store the manufactured homes at the contractor's location. This may	2 bedroom		
	result from a number of logistical issues including but not limited to: delays in	1 bedroom		
	construction of FEMA group sites; dispatch or receiving activity at FEMA's	1 bearoom		
	Manufacturing Housing Storage Sites; or delivery and dispatch activity at disaster			
	Manufacturing Housing Staging Areas. When FEMA requires the contractor to			
	store manufactured homes, the contractor will be compensated for storing the			
	manufactured home in one week increments, even if FEMA allows for shipping			
	of the manufactured home prior to the end of the week.			
02.1 Weekly Storage	Weekly Storage shall (O2.1) be calculated as follows			
Sto	1. The day that FEMA requests that the manufacturer start storing			
ZI.	manufactured homes <i>shall</i> (O2.2) become the weekly anniversary date.			
[] [ee]	2. The formula that <i>shall (O2.3)</i> be used is: Remaining Unshipped from			
M	Previous Week Storage (R) plus all production (P) minus all shipments			
)2.	(S) equals Weekly Inventory (WI).			
	R + P - S = WI			
	3. The WI from a completed week becomes the R for the following week.			
	Examples:			
	Lampico.			
	This is the first week that FEMA requests that the manufacturer store units at the			
	manufacture's site. The production rate is 125 units per week. FEMA requests			
	that 25 units are shipped within the same week.			

R – the residual from the previous week – is 125 S – the amount shipped during the week – is 25 R+P-S = WI 0+125-25 = 100 The weekly inventory at the end of the first week totals 100. During the second week, FEMA requests that production remain the same and no units are shipped. R – the residual (or WI) from the previous week – is 100 P – the amount added during the week – is 125 S – the amount shipped – is 0 WI – the weekly inventory – is 225 The weekly inventory at the end of the second week totals 225. Express unit O3 Jack Stands and ABS Foundation Pads As an option, per FEMA request, the manufacturer shall (03.1) provide adjustable steel piers that are capable of transmitting the vertical live and dead loads of the Manufacturing Housing Unit safety to the footings or foundation below. Adjustable Steel Piers provided shall (03.2) be Commercial of the shelf (COTS) products and shall (03.3) be capable of sustaining the required vertical load capacity. Adjustable steel piers shall (03.4) be listed or labeled for the required vertical load capacity, and, where required by design, for the appropriate horizontal load capacity, and, where required by design, for the appropriate horizontal load capacity. Adjustable steel pier heights shall (03.5) be selected so that the adjustable risers have a minimum of 2 in (50 mm) height adjustment when finally positioned. Adjustable steel piers shall (03.6) be corrosion resistant and capable of withstanding severe weather at storage/staging locations.		
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1 registrate steer press shew (00.0) be corresponded and capable of		
withstanding severe weather at storage/staging locations.		
Express unit		
Alternative: FEMA reserve the right to provide additional specifications for the 3 bedroom		
Express unit		

	Jack stands if the proposed solution by the vendor does not meet FEMA needs.	2 bedroom		
		1 bedroom		
		Express unit		
		Express and		
ص at	As an option, per FEMA request, the manufacturer <i>shall</i> (O3.7) provide squared	3 bedroom		
O3.2 ABS Foundat ion Pad	(24" by 24") ABS Foundation Pads for each pier for the applicable Manufactured	2 bedroom		
	home storage area.	1 bedroom		
_		Express unit		
	The HDJS shall (O3.8) be capable of transmitting and sustaining the vertical live	3 bedroom		
	and dead loads of the MHU safely to the footings or foundation below the jack	2 bedroom		
	stand.	1 bedroom		
		Express unit		
	The HDJS shall (O3.9) be a screw-type jack stand that is adjustable from 19	3 bedroom		
	inches to 31 inches of height. The height shall (O3.10) be measured from the base	2 bedroom		
	of the jack stand to the flat portion of the jack stand that is designed to support	1 bedroom		
	the MHU and shall (O3.11) be the working height of the jack stand not the	1 ocaroom		
lud		Express unit		
O3.3 Heavy Duty Jack Stand		3 bedroom		
\ \	including the safety factor and shall (O3.13) be able to sustain the rated weight	2 bedroom		
Jac	for the operational range (19 inches to 31 inches in height). The jack stand shall	1 bedroom		
\$:	(O3.14) have an appropriate locking mechanism that will hold the jack stand	1 occiroom		
l ā	extension (adjustable portion) in place when it is set to a working height between			
\$	19 inches and 31 inches.			
[ea]		Express unit		
H 8	The jack stand s shall (O3.15) be easy to install and easy to move and remain	3 bedroom		
33.	stable once placed and adjusted. All joints shall (O3.16) be welded. Bolts shall	2 bedroom		
	(O3.17) not be used to connect static (non-moving) parts.			
		1 bedroom		
	(O3.17) not be used to connect static (non-moving) parts.	1 bedroom Express unit		
	(O3.17) not be used to connect static (non-moving) parts. The jack stand shall (O3.18) have a stable base that allows the jack stand to be	1 bedroom Express unit 3 bedroom		
	(O3.17) not be used to connect static (non-moving) parts. The jack stand shall (O3.18) have a stable base that allows the jack stand to be placed on flat surfaces. The stable base shall (O3.19) permanently attached so	1 bedroom Express unit 3 bedroom 2 bedroom		
	(O3.17) not be used to connect static (non-moving) parts. The jack stand shall (O3.18) have a stable base that allows the jack stand to be placed on flat surfaces. The stable base shall (O3.19) permanently attached so that the base of the jack stand lays flat on the contact surface: flat terrain (i.e.	1 bedroom Express unit 3 bedroom		
	(O3.17) not be used to connect static (non-moving) parts. The jack stand shall (O3.18) have a stable base that allows the jack stand to be placed on flat surfaces. The stable base shall (O3.19) permanently attached so	1 bedroom Express unit 3 bedroom 2 bedroom 1 bedroom		
	(O3.17) not be used to connect static (non-moving) parts. The jack stand shall (O3.18) have a stable base that allows the jack stand to be placed on flat surfaces. The stable base shall (O3.19) permanently attached so that the base of the jack stand lays flat on the contact surface: flat terrain (i.e. Concrete, Asphalt, gravel) or ABS pads	1 bedroom Express unit 3 bedroom 2 bedroom 1 bedroom Express unit		
	(O3.17) not be used to connect static (non-moving) parts. The jack stand shall (O3.18) have a stable base that allows the jack stand to be placed on flat surfaces. The stable base shall (O3.19) permanently attached so that the base of the jack stand lays flat on the contact surface: flat terrain (i.e.	1 bedroom Express unit 3 bedroom 2 bedroom 1 bedroom		

height.	1 bedroom			
	Express unit			
The jack stand shall (O3.21) be designed so it can be attached to the frame of the	3 bedroom			
MHU. The connection between the jack stand and the MHU shall be called the	2 bedroom			
head or head plate. The head shall (O3.22) be appropriate to support the MHU	1 bedroom			
without the need for any type of blocking or cribbing and it shall (O3.23) contain				
the appropriate head to allow lifting and leveling the MHU without any				
modification				
	Express unit			
The jack stand shall (O3.24) be designed to be carried and operable by one	3 bedroom			
person without any assistance. The jack stand shall (O3.25) be safe (i.e. free of	2 bedroom			
sharp edges with rounded edges and corners, with all surfaces being smooth, etc.), for the users.	1 bedroom			
	Express unit			
	3 bedroom			
The HDJS shall (O3.26) be corrosion resistant, be operable in a variety of	2 bedroom			
weather conditions, and withstand typical weather conditions at FEMA's primary MHU storage sites located in Selma, AL and Cumberland, MD.	1 bedroom			
	Emmass weit			
	Express unit 3 bedroom			
The jack stand shall (O3.27) remain usable, operable and do not degrade	2 bedroom			
functionality or structure for a period of not less than 15 years with minimal	1 bedroom			
maintenance (i.e. lubrication).	1 bearoom			
maintenance (ne. raerreamon).	Express unit			
	3 bedroom			
The jack stand shall (O3.28) meet appropriate safety standards as defined and	2 bedroom			
published by ANSI/ASTM. The jack stand shall (O3.29) have appropriate	1 bedroom			
rating/testing information.				
rating/testing information.		l	1	
rating/testing information.				
rating/testing information.				

END OF ATTACHMENT 3